

The Seventy-Ninth Annual

Commencement

at

Stanford University



June 14, 1970

The Laurence Frost Amphitheater

5:00 p.m.

Photographs: Persons wishing to take photographs are requested to stay out of the main aisles and not to go beyond the broad crosswalk behind the first section of seats. Since there are many who will wish to take pictures, we will appreciate your returning to your seats as soon as you have photographed your particular degree candidate so that others may have the same privilege.

Medical Station: A medical station with doctor and nurse in attendance is located on the North Rim of the Amphitheater.

Lost and Found: Lost and found articles will be held at the North Rim for one-half hour after the ceremonies before being taken to the Lost and Found Office in the Fire House. Lost children will be taken to the same areas.

Rest Rooms: Rest rooms are located on the down slope of the North Rim, in the rear of Memorial Auditorium across Memorial Way, and in the Athletic Department Building across Galvez Street.

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THE ACADEMIC DRESS

Early in this century colleges and universities in the United States adopted a uniform code for academic dress, and this code is followed today. Among European and other institutions there is wide divergence in the type of dress, and no attempt is made to describe the different costumes.

Cap—The cap is the "mortarboard" type with black cloth cover. The gold tassel may be worn by holders of a Doctor's degree. There is no general rule for the position of the tassel on a mortarboard. Some institutions, during commencement exercises, require undergraduate candidates for degrees to wear the tassel on the right front side before degrees are conferred and to shift them to the left at the moment degrees are awarded. In some respects this custom is a substitute for individual hooding.

Gown—The Bachelor's, Master's, and Doctor's gowns differ slightly in pattern. Only the Doctor's gown bears trimmings. These consist of a velvet facing down the front and three velvet bars across each sleeve; the velvet may be black, or it may be the color appropriate to the subject in which the wearer holds his degree. Several American universities now use the university color for the Doctoral gown, e.g., Harvard, Crimson; Yale, Blue.

Hood—The color or colors in the lining are those of the college or university which granted the degree (Cardinal for Stanford). The binding or edging is the color of the faculty or subject in which the degree was granted. In order to assist in identification of academic costume, colors associated with various subjects are listed below:

Arts, Letters, Humanities	<i>White</i>
Business, Commerce, Accountancy	<i>Drab</i>
Communication, Journalism	<i>Crimson</i>
Economics	<i>Copper</i>
Education	<i>Light Blue</i>
Engineering	<i>Orange</i>
Fine Arts, including Architecture	<i>Brown</i>
Law	<i>Purple</i>
Medicine	<i>Green</i>
Music	<i>Pink</i>
Nursing	<i>Apricot</i>
Philosophy	<i>Dark Blue</i>
Science	<i>Golden Yellow</i>
Speech	<i>Silver Gray</i>
Theology	<i>Scarlet</i>

FLAGS OF THE SCHOOLS

The heraldic banners for the Schools of the University combine the colors normally used on the hoods of the various disciplines with symbols illustrating the activities or the histories of the disciplines, particularly at Stanford.

Earth Sciences—The red lion is an ancient alchemical symbol for gold, which is the academic color for science; the red and black design symbolizes both the mountains and the mines to which the work of this school is mainly directed.

Education—Pale blue, the academic color for this school, is used as a background for the lamp of learning, commonly employed as a symbol for education. The open book is an additional symbol for education widely used by universities and colleges.

Engineering—Orange, color for the engineering hood, is used in the form of a flexible, expandable framework called a *mascle*, which illustrates the growth of this discipline in response to the growth of science and of public needs. The deep blue reflects the extensive commitment of Engineering to doctoral studies.

Graduate School of Business—The hood for this school—drab or biscuit—is not a heraldic color and is used sparingly on the flag. The design elements are the true knot, illustrating the unifying function of management, and the lion. The lion not only reflects the concern of this school with finance—the red lion representing gold—but also commemorates the first Dean of the School, Professor Willard E. Hotchkiss, whose family bore the red lion on their coat of arms.

Humanities and Sciences—White (silver) for the Arts and yellow (gold) for Science are combined in this flag with a red diagonal cross symbolizing the extent to which this school directs the studies of the majority of Stanford undergraduate students. The small black design element, the *ermine*, recalls the ermine-trimmed hood commonly worn by medieval scholars.

Law—Royal purple, the academic color of the law hood, is combined with a pattern of ermine on white. Ermine-trimmed robes are traditionally associated with Justice, and the flag represents the dual concerns of Law and Justice.

Medicine—The green used for the degree hoods for medicine and allied subjects forms a background for the Aesculapean staff and serpent long used as the symbol for Medicine. The geometric pattern of white on red repeats the design element so prominently displayed on the walls of the Medical School Building.

Graduate Division—This flag also combines the colors of arts and sciences, silver and gold, with the deep blue color used in the hood of the PhD degree. The designs are stylized representations of the Stanford MS and PhD degree hoods, and the seven ermines denote the seven schools with which the work of the Graduate Division is concerned.

University Flag—This flag, which is intended for University-wide use, takes as its principal design element the triple redwood frond which is common to all the School flags.

Presidential Flag—The President's flag is derived from the seal adopted by the University's first President, David Starr Jordan. The Palo Alto redwood tree represented in its natural colors, on a white ground, is set off from the cardinal field by the same decorative ring used around the edges of seals.

The element which appears in all the flags is a triple frond of the redwood tree. By long usage the Palo Alto redwood tree has been taken as the symbol of the whole University. The triple frond is used to symbolize the botanical function performed by leaves, namely the synthesis involved in the organization, transmission, and generation of knowledge, which takes place in the Schools and on which the scholarly growth of the University vitally depends. This common function of the Schools is represented in the cardinal flag, the redwood frond in a white circle.

CARILLON PROGRAM

Three 18th Century Pieces

Prelude I

Matthias van den Gheyn

Andante

Joseph Fiocco

Minuet

J. S. Bach

Three 20th Century Compositions

Bells of Zion

Johan Franco

Canzone for Carillon

Gian-Carlo Menotti

Soliloqui

Jean Miller

Margo Armbruster Halsted, Carillonneur

Pierlala for Bells

Edward Loos

Italian Sonata for Bells

George Clement

Mrs. Halsted and Prof. Angell

Pizzicati for 23 Bells

Emile Verrees

Toccata for Carillon

Clifford Ball

Fugue for Bells

J. B. Angell

Adagio

W. A. Mozart

Lullaby

Kamiel Lefevere

The Bells Rejoicing

Kamiel Lefevere

James B. Angell, Carillonneur

THE STAR-SPANGLED BANNER

O say ! can you see, by the dawn's early light,
What so proudly we hail'd at the twilight's last gleaming?
Whose broad stripes and bright stars, thro' the perilous fight,
O'er the ramparts we watch'd, were so gallantly streaming!
And the rockets' red glare, the bombs bursting in air,
Gave proof thro' the night that our flag was still there.

Chorus

O say, does that Star-Spangled Banner yet wave
O'er the land of the free and the home of the brave?

THE STANFORD HYMN

Where the rolling foothills rise
Up toward mountains higher,
Where at eve the Coast Range lies
In the sunset fire,
Flushing deep and paling,
Here we raise our voices, hailing
Thee, our Alma Mater.

Refrain

From the foothills to the bay	It shall ring and float away.
It shall ring,	Hail, Stanford, Hail!
As we sing,	Hail, Stanford, Hail!

Members of the audience are requested to join in the singing of "The Star-Spangled Banner" and "The Stanford Hymn."

Order of Academic Procession

*The Procession of Candidates for Degrees and of the Faculty
will enter the Amphitheater in the following order:*

CANDIDATES FOR THE BACHELOR'S DEGREES

By schools and departments as listed in this program.

CANDIDATES FOR ADVANCED DEGREES

By schools and departments as listed in this program.

THE FACULTY

THE DEANS

THE OFFICERS OF THE UNIVERSITY

THE TRUSTEES

THE PRESIDENT OF THE BOARD OF TRUSTEES

THE ACTING DEAN OF THE CHAPEL

THE BACCALAUREATE SPEAKER

THE COMMENCEMENT SPEAKER

THE PRESIDENT OF THE UNIVERSITY

Candidates for Degrees will be presented to the President by the Provost, the Dean of the Graduate Division, and the Dean of each school. Following the conferral of Advanced Degrees by President Pitzer, these graduates will leave the Amphitheater, led by the Deans, to receive their diplomas. (See map at back of program for location of each school ceremony.)

Candidates for the Bachelor of Arts and Bachelor of Science degrees will remain in Frost Amphitheater to receive their diplomas. The names of the individual departments and divisions will be announced in the School of Engineering and in the School of Humanities and Sciences.

The speaker for the Baccalaureate Service at 11:00 a.m. in Memorial Church was the Reverend B. Davie Napier, Dean of the Chapel, Stanford University.

Order of Exercises

PROCESSIONAL

Tannhauser March *Richard Wagner*
Coronation March *Giacomo Meyerbeer*

STANFORD UNIVERSITY BANDS

ARTHUR P. BARNES, *Associate Professor of Music, Director*

THE STAR-SPANGLED BANNER

HAROLD E. SCHMIDT, *Professor of Music, Choral Conductor*

INVOCATION

WAYNE P. ROOD, *Acting Dean of the Chapel*

RECOGNITION OF ENDOWED PROFESSORSHIPS

ADDRESS

THE HON. CHARLES PERCY

CONFERRAL OF DEGREES

RECESSIONAL OF ADVANCED DEGREE CANDIDATES

Prelude from Die Meistersinger *Richard Wagner*

Families and friends of Advanced degree Candidates are asked to leave by Gates 3 and 4 at the rear of the Amphitheater.

UNDERGRADUATE DEGREE CEREMONY

THE LLOYD W. DINKELSPIEL AWARDS

AWARDING OF DIPLOMAS

GREETINGS TO THE GRADUATES

PRESIDENT PITZER

THE STANFORD HYMN

(words on page 6)

HAROLD E. SCHMIDT, *Professor of Music, Choral Conductor*

BENEDICTION

THE REVEREND B. DAVIE NAPIER, *Dean of the Chapel*

RECESSIONAL

Academic Festival Overture *Johannes Brahms*

Following the benediction, members of the audience and graduates are asked to remain standing until the Trustees and Faculty have left the Amphitheater.

The audience is requested to keep the aisles clear during the Exercises. Regulations regarding the taking of photographs are on the inside front cover of the program.

Endowed Professorships

The Endowed Professorship is a respected academic tradition. It brings honor to the holder, distinction to the institution, and a sense of achievement to the donor. Four members of the Stanford faculty were named to Endowed Professorships during the past year:

GORDON ALEXANDER CRAIG, *J. E. Wallace Sterling Professor of Humanities*

LORENZ EDWARD ALFRED EITNER, *Osgood Hooker Professor of Fine Arts*

ARTHUR KORNBERG, *Emma Pfeiffer Merner Professor of Biochemistry*

JOSHUA LEDERBERG, *Joseph D. Grant Professor of Genetics*

Members of the faculty formerly honored with Endowed Professorships are the following:

GEORGE LELAND BACH, *Frank E. Buck Professor of Economics and Public Policy*

FELIX BLOCH, *Max H. Stein Professor of Physics*

HARPER WHITE BOYD, JR., *Sebastian S. Kresge Professor of Marketing*

LEE JOSEPH CRONBACH, *Vida Jacks Professor of Education*

ROLF ELIASSEN, *Silas H. Palmer Professor of Civil Engineering*

DON E. FEHRENBACHER, *Coe Professor of American History*

PAUL JOHN FLORY, *J.G. Jackson and C.J. Wood Professor of Chemistry*

GAYTON E. GERMANE, *1907 Foundation Professor of Logistics*

ALBERT JOSEPH GUERARD, *Albert Guerard Professor of Literature*

MOFFATT HANCOCK, *Marion Rice Kirkwood Professor of Law*

ROBERT D. HESS, *Lee L. Jacks Professor of Child Education*

HALSTED R. HOLMAN, *Guggenheim Professor of Medicine*

JOHN BINGHAM HURLBUT, *Jackson Eli Reynolds Professor of Law*

GEORGE HARMAN KNOLES, *Margaret Byrne Professor of American History*

JOHN C. LAPP, *William H. Bonsall Professor of French Literature*

HAROLD JACK LEAVITT, *Walter Kenneth Kilpatrick Professor of Organizational Behavior and Psychology*

HERBERT S. LINDENBERGER, *Avalon Professor of Humanities in Comparative Literature and English*

JOHN CHESTER MILLER, *Edgar E. Robinson Professor of United States History*

BROOKS OTIS, *Olive H. Palmer Professor of Humanities in Classics*

CHARLES FREDERICK PARK, JR., *Donald Steel Professor of Geology*

DAVID MORRIS POTTER, *Coe Professor of American History*

DAVID A. RYTAND, *Arthur L. Bloomfield Professor of Medicine*

MENACHEM M. SCHIFFER, *Robert Grinnett Professor of Mathematics*

WILBUR SCHRAMM, *Janet M. Pack Professor of International Communication*

WILLIAM BRADFORD SHOCKLEY, *Alexander M. Poniatoff Professor of Engineering Science*

CLAUDE MITCHELL SIMPSON, JR., *Coe Professor of American Literature*

WALLACE E. STEGNER, *Jackson Eli Reynolds Professor of Humanities*

EZRA SOLOMON, *Dean Witter Professor of Finance*

CARL BERNHARDT SPAETH, *William Nelson Cromwell Professor of Law*

KEITH BREDEN TAYLOR, *George deForest Barnett Professor of Medicine*
 GEORGE A. THOMPSON, *Henry Salvatori Professor of Geophysics*
 CLIFFORD F. WEIGLE, *Paul C. Edwards Professor of Communication*
 VIRGIL KEEBLE WHITAKER, *Sadie Dernham Patek Professor of*
Humanities in English
 HOWARD R. WILLIAMS, *Stella W. and Ira S. Lillick Professor of Law*
 CHARLES YANOFSKY, *Herzstein Professor of Biology*
 DONOVAN HAROLD YOUNG, *Silas H. Palmer Professor of Civil*
Engineering

Lloyd W. Dinkelspiel Awards

The Lloyd W. Dinkelspiel Awards for Outstanding Service to Undergraduate Education at Stanford University are awarded annually to a faculty or staff member and to a senior man and a senior woman who have made a distinctive contribution to the development and enrichment of undergraduate education in its broadest sense.

The endowment was given in 1960 as a memorial by the family and friends of Mr. Lloyd W. Dinkelspiel, who served Stanford University with distinction for many years, most notably as President of the Board of Trustees from 1953 to 1958.

The following names are the faculty awardees since 1960:

1960 FRIEDRICH W. STROTHMANN	1965 HAROLD M. BACON
1961 ELMER D. FAGAN	1966 LEONARD I. SCHIFF
1962 WILFRED E. STONE	1967 JOHN W. DODDS
1963 PHILIP H. RHINELANDER	1968 DAVID M. POTTER
1964 JOHN L. MOTHERSHEAD, JR.	1969 HERBERT L. PACKER

Emeriti 1970

Each year some members of the Stanford University faculty become emeriti. In recognition and in gratitude for their manifold services to Stanford University, the names of all those who will have attained emeritus rank at the end of this academic year are recorded here.

QUENTIN MONROE GEIMAN, *Professor of Preventive Medicine*
 ARTHUR C. GEISE, *Professor of Biology*
 L. JOSEPHINE HAWES, *Assistant Professor of Nursing*
 A. MYRA KEEN, *Professor of Paleontology and Curator of Malacology*
 DANIEL M. MENDELOWITZ, *Professor of Art and Education*
 GEORGE SPRAGUE MYERS, *Professor of Accounting, Graduate School of*
Business
 GERALD L. PEARSON, *Professor of Electrical Engineering*
 FRIEDRICH WILHELM STROTHMANN, *Professor of German*
 THOMAS B. L. WEBSTER, *Professor of Classics*
 NAOMI H. WRAGE, *Assistant Professor of Speech and Drama*

Graduation Honors 1970

As a recognition of high scholastic attainment, the University awards the Bachelor's degree with "Great Distinction" to approximately five per cent, and with "Distinction" to approximately fifteen per cent of the graduating class. This award is based primarily on the work of the last two years.

GREAT DISTINCTION

David Bowen Anderson	Bruce Walter Laidlaw
James Anthony Antognini	Joan Denise Lamaysoo
James Owen Armstrong	John Daniel Langer
Neil Steven Arnet	Gordon Eliot Lee
Simone Annette Bateman	Henry Samuel Levinson
Anne Wright Baxter	Robert Dibble Lindgren
Dana Nicholas Benelli	Virginia Anne Linsley
George Vann Bennett	Miley Wesson Merkhofer
Donald Stimson Bethune	Katherine Coe Meyer
Bal Madhav Bhagwat	Patricia Joan Mihaly
Caroline Elizabeth Bixby	Mary Elizabeth Milwid
Owen Douglas Blank	Stephen Alfred Moe
Roger Carlton Boesche	David McNeil Morse
John Edward Boli	Lillian Kiyomi Nakagawa
Rachelle Joan Canter	Kenji Ken Nakanishi
Francis P. Carroll	James Bernard Nickloff
Wesley Yew Sing Chang	Stephen Harvey Nimelstein
Daniel Gorham Clement	Marc Roman Nuwer
Cynthia Comrey	Hilde Ann Olds
William M. Considine	Marilyn Elaine Dilworth Patton
Susan Lou Cooper	Dennis Mayer Perluss
Mary Lou Cousins	Sandra Doreen Peterson
Ruth Collins Cronkite	Thomas Louis Pfister
Eugene Albert Danaher	Susan Beth Phillips
Karen Kay Davis	Phillip Rodney Pollock
Cynthia Anne Denenholz	Russell Louis Richeda
Diana Deverell	Ingrid Barbara Rose
John Randall Dudley	Sally Lucille Schultz
Carolyn Mary Fitzmaurice	Steven George Scott
Michael Joseph Geneviro	Douglas Seegmiller
Byron Stephen Georgion	Earl Nicholas Selby
Gregg Jay Gittler	Carla Jennifer Senders
Virginia Anne Good	Carolyn Curtis Smith
Robert Michael Grainger	Elizabeth Joan Brown Smith
Barbara Christine Gray	Robert Dixon Speas, Jr.
Jerrold Wayne Grossman	James Wendell Spencer, Jr.
Allen William Hamill III	John Willson Spiegel
Karen Karisse Hamilton	Ronald Paul Spogli
Barbara Jean Blain Harrell	Shelley Helene Surpin
Ronald Morgan Harris	Janet Ann Erjavec Timbie
Connie Hill	Michael Lee Van De Vanter
Jesse King Hill	Mark Ira Weinberger
Andrea Elizabeth Hine	Michael Magen Weinstein
Dianne Marie Daugherty Horgan	Anne Kathryn West
Terence Edward Horgan	Patricia Lee Willard
Robert Frances Hossley	James Livingston Williamson
John Edward Hulme	Elizabeth Wiltsee
Larry Dean Kier	Robert Frederick Yeager
John Leroy King	John Irving Zarwan
Katherine Sue Kuhl	

DISTINCTION

Bina Aggarwal	Joy Greer Anderson
Carol Jean Ahmann	Robert Hume Andrews
Patricia Oliver Alexander	Frances Ann Armstrong
Patricia S. Allen	Howard Glen Arnett

Melissa Trulie Austin
 Bruce Paul Baird
 Esther Caroline Ball
 Richmond Tyler Barbour
 Bruce Walter Beck
 Dennis Stuart Beck
 Gene David Block
 Melissa Bluemle
 Jeffrey Michael Blum
 William David Boelter
 David Everett Bookin
 Patricia Chase Bowen
 Steven Scott Bowers
 Richard Wayne Bridges
 Robert Brody
 Richard Millard Buxton
 Elizabeth Louise Byrne
 Alana Rae Cohrs Calhoun
 Scott Wallace Cameron
 Robert Ira Cane
 Lynne L. Parks Carter
 Mark Everett Carter
 Mary Claire Carter
 Craig Roger Carver
 Bayard D. Catherwood
 Penelope Chambers
 Douglas Eugene Chandler
 Patricia Diane Chandler
 Carol Anne Chetkovich
 Frank Forrester Church
 Kathryn Elaine Clark
 Robert Harmon Clark
 Steven Clay Cloud
 Martha Lawrence Coe
 Martin Gerald Cogan
 William Allan Cohan
 Robert Edward Colby
 James Wilmot Coleman
 Constance M. Collier
 Warren Bradford Cornell
 Carole Marie Counihan
 Barbara Lynn Cruse
 Karen Yvette Cruter
 Scott Campbell Davis
 John Raymond B. Delaney
 Shirley Jean Desmond
 Debra Ann Doepel
 Mary Fahnestock Doerge
 Karl Jonathan Drake
 Michael A. Duncheon
 Caryn Edmunds
 Anne Marie Eggebroten
 Sharyn Anne Endow
 Charles Barrett Ensminger
 William Edgar Ervin
 James Richard Faris
 Richard Arnold Fenske
 Patricia Irene Figone
 Myron Douglas Filene
 Robert James Finger
 Richard John Fink
 Paul Johnstone Floto
 Forrest Russel Frank

Martin Furmanski
 Betsy Thayer Fyfe
 Thomas Frederick Gede
 David Lawrence Gilmer
 Alan George Glaros
 Margaret Helen Gluek
 Cornelius Joseph Golden, Jr.
 Jack Cole Goralnik
 Craig Leigh Gosden
 William Welsh Graham
 Mark Frederick Granville
 Margaret Louise Graves
 Mark Livingston Griffiths
 Sue Haley
 Robin Rosamond Hall
 Thomas Jeffery Hampson
 Christopher Bruce Hansen
 Robert William Harding
 John Daniel Hare
 Constance Bastine Harriman
 Steven Thomas Harris
 Antony Howard Harrison
 Elizabeth C. Hastorf
 Julianne Hayden
 Barbara Peace Hazard
 Richard James Henry
 Leslie Bonita Hill
 Dean Ray Hirabayashi
 John Anthony Hodges
 Joanne Rose Hoffman
 Marilyn Denise Holmes
 Douglas Alan Horst
 Robert Beck Hoy
 Mary Jean Hueners
 Mary Clare Hummer
 Alice Decker Hunter
 Patricia Juliet Imsand
 Gregory John Jacobs
 Frank Douglas Johanson
 Henry Claus Leonard Johnson, Jr.
 Julie Elise Johnson
 April Louise Lanz Jones
 Terry Lynn Karl
 Kenneth Daniel Karlin
 Birute Maria Kazlauskas
 William Dixon Kelly, Jr.
 Patrick Francis Klein
 William John Klingel
 Brian Wayne Koch
 Michael Anthony LaCava
 Stephen J. Langdon
 Lester William Lee
 Doriana Byrd Lehner
 Elizabeth Ann Leichter
 John William Lieberherr
 Larry Allen Lincoln
 Jeffrey Cameron Lindell
 Mark Wallace Vischer Little
 John Pullman Longstreth
 Gene Alexander Lucero
 Lawrence Guyn McBride
 Peter Brooks McChesney

David Thomas McDonald
 Michael Brownlee McGeehon
 James Regis McMonagle
 Nancy McNabb
 William Lee Madden, Jr.
 Glenn Douglas Madokoro
 Kyle Fuller Magee
 Frederick Michael Mann
 David Mannheimer
 David Melville Mantooth
 Douglas Murray Manuel
 Paul Richard Mascovich
 John Allen Mason
 Carl William May
 Nancy Susan Maytum
 Susan McCann Messer
 Dixie Ann Michels
 Margaret Ruth Miller
 Lee Gerald Mintz
 James William Monroe
 Roberta Rosaria Conlan Moore
 Melanie Jeanne Morgan
 Diane Marya Mueller
 Carl Gunther Muller
 Christopher Ewart Murray
 Roger James Nelson
 Mary Jeanne Newton
 Christopher Norgaard
 Carol Ann Norman
 Gordon Kent Norman
 Mary Kathleen O'Grady
 Mary Virginia O'Hare
 Harold Bruce Oliver
 Eric Gray Olsen
 John Manuel Ortiz
 Ronald Michael Oster
 Vince Henry Otte
 Jay Colin Owens
 Richard Walter Page
 Stephanie Joan Palmer
 David Wilson Patty
 Richard Munro Pettigrew
 Richard Harding Pettit
 Kenneth Joe Philpot
 Ernest Emery Phinney, Jr.
 Martha Victoria Parmalee Pindar
 Marcia Louise Porter
 Lilli Madalyn Purcell
 Dan Calvin Quigley
 Manuel Hilarion Quintana
 John Dallas Reagh III
 Michael D. Richards
 David Andrew Riemenschneider
 Chris Joseph Rigos
 Robert Latham Rinder
 John Marshall Rogers
 Pamela Anne Rollefson
 Susan Kathryn Rollins
 David Lewis Russell
 Terry Aubrey Rustin
 Paul Marion St. John
 Linda Marie Schlinger
 Matthew Marks Schneiderman
 Mark Schumacher
 Martha Carolyn Schwab
 Michael Louis Schwartz
 Robert Lewis Schwartz
 Peter Michael Senge
 Helena Shapiro
 William Harry Shaw III
 Earl Roby Shelton
 John Robert Shepherd
 Rand Hunt Shipley
 Ruth Cecilia Sitton
 Sarah Elizabeth Spaght
 James Vernon Spickard
 Shelley Jean Stark
 Mary Margaret Steele
 Joseph Richard Stewart
 Susan Strehle
 Don Philip Stuart
 Robert Edward Stuart
 Barbara Alice Suckling
 John Edwin Suddock
 James Arthur Tedrow
 Elaine Chiles Tennant
 Herbert Alonzo Terry
 Frederic Seabrook Thomas
 John Spencer Thomas
 Sylvia Dawn Meyners Thornburgh
 Barton Dennison Thurber
 Lawrence Paul Tramutt
 Lois Ann Tupper
 Dennis George Uyemura
 Brent Weston Vernon
 James Pritchard Viney
 Kathryn Ann Wagner
 Steven Robert Watson
 Susan Beth Cohen Weinberger
 Paul Kenneth Wesler
 Sally Caroline Wetzel
 Alexander Strawbridge White
 Rolland Barron White
 Robert Kendrick Whitson
 Donald Dwight Willis
 Paul Delbert Winchester
 Adele Simone Windeguth
 Mark Irving Wood
 Stephen Julian Yoder
 Marjorie Briggs Young
 Oglesby Herbert Young
 Shari Lynn Young
 David Charles Zalk
 Donald Edward Zepfel

PRESENTATION OF DEGREE CANDIDATES

Candidates for the Bachelor's Degrees

RICHARD W. LYMAN, *Vice-President and Provost*

SCHOOL OF EARTH SCIENCES

RICHARD H. JAHNS, *Dean*

BACHELOR OF SCIENCE, GEOLOGY

- ¹Michael Karl Hendrickson.....Humboldt County
John Curtis Houghton.....Palo Alto
William Claude Kinney.....Crystal Lake, Illinois
²William Bruce Morrow.....Redding
Peter Austin Nelson.....Atherton
Douglas Andrew Phillips.....Ivanhoe
Steven Remo Schneider.....San Francisco
 With Departmental Honors
³David Alexander Strausz, Jr.Pullman, Washington
Vernon Frank Taylor III.....Denver, Colorado
¹Robert Royal Tyson.....Pasadena

BACHELOR OF SCIENCE, GEOPHYSICS

- ¹Charles Frederick Kroger.....Yosemite Valley
Lawrence Allen Lawver.....Orinda
³Donald Leslie Wilson.....Woodland Hills

BACHELOR OF SCIENCE, PETROLEUM ENGINEERING

- Richard Clyde Dundas.....Juneau, Alaska
³Thomas Michael Gallonardo.....Thousand Oaks
Robert Frank Pietrowski, Jr.Portola Valley
²Robert Archie Shore.....Bakersfield

SCHOOL OF ENGINEERING

WILLIAM M. KAYS, *Chairman of
Mechanical Engineering*

BACHELOR OF SCIENCE, CHEMICAL ENGINEERING

- ³John Kenji Ishikawa.....Honolulu, Hawaii
 Dual Degree Program: A.B., Claremont Men's College
¹James Michael Napoleon.....Palo Alto
¹Franklin Mattes Orr, Jr.Houston, Texas
Rand Hunt Shipley.....Deerfield, Illinois

BACHELOR OF SCIENCE, CIVIL ENGINEERING

- Theodore Alexis Boutacoff.....Woodside
²Peter John Boyce.....Melbourne, Australia
Bennion Douglas Buchanan.....Paris, France
²George Alan Crooks.....Redwood City

¹ Degrees conferred October 2, 1969.

² Degrees conferred January 8, 1970.

³ Degrees conferred April 2, 1970.

William Lyon Eakland.....	La Canada
James Richard Faris.....	Pomona
Jack Cole Goralnik.....	Clayton, Missouri
² David William Hansen.....	Live Oak
Maurice Alfred Kruth.....	Ukiah
Alan Duryea Lamont.....	McKinleyville
Roger James Nelson.....	Portland, Oregon
Dual Degree Program: A.B., Claremont Men's College	
David Norman Reinhard.....	Tucson, Arizona
Daniel James Schilaty.....	Everett, Washington
² Michael Olaf Strandberg.....	Bellevue, Washington
² James Arthur Tedrow.....	San Jose

BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING

Pedro Albarracin.....	Bogota, Colombia
Kenneth Wagner Aull.....	Eagle Lake, Texas
Michael Arthur Aymar.....	Millbrae
Kenneth R. Bilodeau.....	Riverside
Dual Degree Program: A.B., Claremont Men's College	
John Raymond Delaney.....	Hingham, Massachusetts
Philip L. Denniston.....	Rolling Hills Estates
Robert Peine Dunham.....	Scottsdale, Arizona
³ David Lawrence Gilmer.....	Las Cruces, New Mexico
Charles Raymond Graham.....	Hagerstown, Maryland
³ Michael Ash Heathman.....	Wichita, Kansas
Robert Frances Hossley.....	Deming, New Mexico
William Harter Hudson.....	San Leandro
Christopher Harry Johnson.....	Malibu
Charles Clark Jordan.....	Fullerton
³ Jeffrey Arthur Kern.....	San Mateo
¹ Harry Thomas Lee.....	Mountain View
Larry Allen Lincoln.....	Sacramento
William Grobe Lundell.....	San Antonio, Texas
Randall James McEwen.....	Payette, Idaho
Michael Charles Merchant.....	Anaheim
Gary Carl Niemeyer.....	Palos Verdes Estates
Dual Degree Program: A.B., Claremont Men's College	
³ Thomas Alan North.....	Shaker Heights, Ohio
² Arthur William Odell.....	Mountain View
Harold Lee Reyburn.....	Fremont
Peter Thomas Robustelli.....	Stockton
Richard Alan Scollay.....	San Juan, Puerto Rico
³ Douglas Seegmiller.....	Los Alamos, New Mexico
Hiroshi Henry Shishido.....	East Palo Alto
Mark Lowell Yelderman.....	Rosenberg, Texas

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Dissertation: Computerized Lineament Tectonics and Porphyry Copper Deposits in S.E. Arizona and S.W. New Mexico.
- David Hugh Chipping.....Davis
Dissertation: The Petrology and Paleogeography of Cretaceous and Lower Tertiary Strata in the Vicinity of Cuyama Valley, California.
- ²Hugh Lucius Davies.....Cottesloe, Australia
Dissertation: Peridotite-Gabbro-Basalt Complex in Eastern Papua: An Overthrust Plate of Oceanic Mantle and Crust.
- ²Eric Dowty.....Los Angeles
Dissertation: Crystal Chemistry of Titanian Garnet: Site Distribution and Valence of Cations.
- ¹James Hatten Howard III.....Daytona Beach, Florida
Dissertation: Geochemical Behavior of Selenium in Earth-Surface Environments.
- ²Anton Louis Inderbitzen.....San Diego
Dissertation: Relationships Between Sedimentation Rate and Shear Strength in Recent Marine Sediments off Southern California.
- ¹Keenan Lee.....Huntington, New York
Dissertation: Infrared Exploration for Shoreline Springs: A Contribution to the Hydrogeology of Mono Basin, California.
- Carol Ann Weilbacher McLeroy.....Chicopee, Massachusetts
Dissertation: Upper Cretaceous (Campanian-Maastrichtian) Angiosperm Pollen from the Western San Joaquin Valley, California.
- William Joseph Moore.....Menlo Park
Dissertation: Igneous Rocks in the Bingham Mining District, Utah: A Petrologic Framework.
- ¹Fred Peterson.....Denver, Colorado
Dissertation: Cretaceous Sedimentation and Tectonism in the Southeastern Kaiparowits Region, Utah.
- ¹John Harold Puffer.....Buffalo, New York
Dissertation: Magnetite and Ilmenite in the Granitic Rocks of the Pegmatite Points Area, Colorado.
- ³John Benjamin Squyres.....San Diego
Dissertation: Origin and Depositional Environment of Uranium Deposits of the Grants Region, New Mexico.
- Richard John Stewart.....Duluth, Minnesota
Dissertation: Petrology, Metamorphism and Structural Relations of Graywackes in the Western Olympic Peninsula, Washington.
- ¹Leland Jan Turk.....Tulare
Dissertation: Hydrogeology of the Bonneville Salt Flats, Utah.
- ¹Maurice Deyo Veatch.....Fairbury, Nebraska
Dissertation: Ground-Water Occurrence, Movement and Hydrochemistry Within a Complex Stratigraphic Framework, Jefferson County, Nebraska.
- John Wharton Williams.....Silver Spring, Maryland
Dissertation: Geomorphic History of Carmel Valley and Monterey Peninsula, California.
- ¹Half Al Zantop.....Barcelona, Spain
Dissertation: Trace Element Distribution in Manganese Oxides and Iron Oxides from the San Francisco Manganese Deposit, Jalisco, Mexico.

GEOPHYSICS

- Robert Laughlin Wesson.....Seattle, Washington
Dissertation: Seismic Ray Computations in Laterally Inhomogeneous Crustal Models.
- ³Teddy Godfrey Zengeni.....Umtali, Rhodesia
Dissertation: PKKP and the Fine Structure of the Earth's Core.

MINERAL ENGINEERING

- ²Robert Neil Anderson.....Palo Alto
Dissertation: Thermodynamics of Nitride Reactions in Molten Uranium-Tin Alloys and Applications to Nuclear Fuel Reprocessing.

- ¹Booker Williams Morey.....Rochester, New York
Dissertation: Dry Conditioning for Semitaconite Flotation by Chemisorption of Alcohols onto Quartz.
- Michael Carr Speer III.....Chicago, Illinois
Dissertation: Magnesium Vapor Solubility and Interactions in Liquid Iron-Base Alloys.

PETROLEUM ENGINEERING

- ²Gilbert Victor Cady.....Los Angeles
Dissertation: Model Studies of Geothermal Fluid Production.
- ¹Demir Ersoy.....Istanbul, Turkey
Dissertation: Temperature Distributions and Heating Efficiency of Oil Recovery by Hot Water Injection.
- Rajagopal Raghavan.....New Delhi, India
Minor: Mechanical Engineering.
Dissertation: The Instability of Liquid-Liquid Interfaces and Model Systems for Emulsion Formation in Porous Media.
- ¹Ali Amin Sinnokrot.....Hebron, Jordan
Dissertation: The Effect of Temperature on Oil-Water Capillary Pressure Curves of Limestones and Sandstones.

SCHOOL OF EDUCATION

H. THOMAS JAMES, *Dean*

Master of Arts

EDUCATION

- ¹Michael Hugh Abelon.....Brunswick, Maine
- Marta Maria Aguilar.....El Paso, Texas
- ³Alvaro Aranguibel.....Caracas, Venezuela
- John Martin Aune.....Thief River Falls, Minnesota
- Edward Oliver Belcher.....Louisville, Kentucky
- ¹Frederick James Bonney.....San Carlos
- David Marshall Braswell.....Belleville, Illinois
- Donald Warren Bremme.....Berkeley
- ¹Mary Jean F. Brod.....Carbondale, Illinois
- Christina Mei-Ling Gregory Broughton.....Honolulu, Hawaii
- ³Jorgen Bundgaard.....Copenhagen, Denmark
- Malie Carolyn Burgin.....Denver, Colorado
- ¹Chalio Buripugdi.....Petchburi, Thailand
- Michael Clete Burke.....Palo Alto
- Brian John Bushweller.....Port Jervis, New York
- Herlinda E. Cancino
- Brian Capell.....Northampton, England
- ¹Gerald Lee Casimere.....Berkeley
- ¹Barbara Jean Chan.....Stockton
- Cynthia Leslie Clark.....Bellevue, Washington
- ¹Vicki Davis Clebsch.....Palo Alto
- ¹Angel Reynaldo Contreras.....Claremont
- Catherine Anne Brinkerhoff Cory.....Palo Alto
- ¹Patricia Ann L. Crocker.....Castro Valley
- William Patrick Cunningham.....San Antonio, Texas
- Daniel Isaac Davis.....New York, New York
- ¹Judith Estelle Sproul Davis.....East Derry, New Hampshire
- Pamela Jean Davis.....Monterey
- ¹Edward Wayne Demmer.....Medford, Oregon

Nancy S. Sanders Depue.....	Colorado Springs, Colorado
¹ Elaine Irma Haas Derbenwick.....	Torrington, Connecticut
Alan John DeYoung.....	Menlo Park
³ Chandrakala Arora Dhar.....	Delhi, India
Paul Ernest Dubois.....	Reading, Massachusetts
Susan McArthur Dunshee.....	Glenview, Illinois
¹ Ruth Elaine Duttweiler.....	Endicott, New York
¹ Ronnie Loren Edwards.....	Antioch
Annalee Elman.....	Montreal, Quebec, Canada
Robert Lawrence Enenstein.....	Fullerton
Belarmino Leo Esquibel.....	Santa Fe, New Mexico
¹ Sarah Katharine Nixon Esslinger.....	Stanford
Melvyn Roger Ferris.....	Riverside
Anne Geiger Finch.....	Palo Alto
¹ Judith Elaine P. Foster.....	Cupertino
Beverly Ann B. Fourier.....	Adams, Massachusetts
Robert Alan Free.....	La Jolla
Paulette Sareve Fritz.....	New Kensington, Pennsylvania
Lionel Gallego.....	San Jose
² John Ganas.....	Parma, Ohio
Fred Gandy, Jr.	Starkville, Mississippi
Judith Ellen Goldberg.....	Sacramento
Ellen Inda Gordon.....	Philadelphia, Pennsylvania
² Robert Sheridan Gorman.....	San Francisco
Larry Douglas Goss.....	San Mateo
Don Ian Gray.....	Woodland
Allene Frances Griesche.....	Orinda
Francisco Javier Grijalva.....	San Francisco
Joan Barbara Grossman.....	Cleveland, Ohio
David Gutierrez, Jr.	San Jose
Jeffrey William Hammett.....	San Jose
John William Hargis.....	Alamo Heights, Texas
³ Charles Jerome Harman.....	Forsyth, Montana
Lauri Margaret Harper.....	Mill Valley
² Odell Ebbie Harris, Jr.	Stockton
James Grafton Rogers Hart.....	Denver, Colorado
Lisa Passavant Henderson.....	Darien, Connecticut
¹ Donald Erle Herzer.....	Milwaukee, Wisconsin
Marilyn Mercedes Holmes.....	Mound Bayou, Mississippi
¹ Katherine Anne Hosken.....	Los Altos
¹ Mary Virginia Houts.....	Laguna Beach
Thera Joyce Smith Hunn.....	Escondido
James Swensen Jacobs.....	Ogden, Utah
¹ Lorraine Lois Borba Jacop.....	Salinas
Joanne Dearing Jirous.....	Seattle, Washington
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³ Herbert MacKay Kennedy.....	Oakland
¹ Carol Brobeck Kesner.....	San Diego
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¹ Marian Edith Kretschmer.....	Bethesda, Maryland
¹ Lynn Elaine Krohn.....	Phoenix, Arizona
Jeanne Cecilia Camden LaBrant.....	Yakima, Washington
Robert Morley Law.....	Menlo Park
Katherine Louise Lawrence.....	Sacramento
¹ Mary Eloise Fetrow Lawson.....	Port Hueneme
Meribel Wu Lee.....	San Jose
John Phillips Levin.....	Los Angeles
Dennis Carl Lindberg.....	Sunnyvale

- Susan Lippman.....Atlantic City, New Jersey
 Gretchen Karlynn Young Lobitz.....Portland, Oregon
 Walter Charles Lobitz III.....Portland, Oregon
 Linda Lee Lockhart.....Los Gatos
 Mary Macharg Halsted Lonergan.....Palo Alto
 Carol Roberta Ottman Lowrey.....Santa Barbara
 Scott Michael Lubbock.....Alamo
¹Diane Schaffer Lucero.....Flossmoor, Illinois
¹Erika Annemarie Lueders.....Stuttgart, Germany
³Mary Ann McGivern.....Madison, Wisconsin
 Chris McLachlin.....Honolulu, Hawaii
 Christine Ellen Owens McLaren.....Alexandria, Virginia
 Susan Lockhart McMurray.....Albuquerque, New Mexico
 Priscilla Garaza Magpale.....Stockton
 Alan Ralph Marshall.....London, England
¹Wanda Celesta Martin.....Hansen, Idaho
 Cheryl Irene Messmer.....Marysville, Washington
 David George Miller.....Beaver Falls, Pennsylvania
¹Norma Lynn H. Miller.....Las Vegas, Nevada
 Alan Douglas Mokler.....Anaheim
 Alejandro Jose Molino-Torres.....Mountain View
¹Lorna Jean Montague.....Palo Alto
 Oralia Morales
 Ralph Wayne Morgan.....Whittier
¹Nancy Ellen B. Moss.....Wyncote, Pennsylvania
 Mebo Kabeta Mwaniki.....Mwanza, Tanzania
¹Barbara J. G. Oppmann.....Stanford
¹Bonnie Adae Owens.....Salt Lake City, Utah
 Gail Susan Papermaster.....St. Louis Park, Minnesota
 Robert Steven Parker.....Bakersfield
 Cynthia Ann Parnell.....San Diego
 Michael Robert Pavko
¹Carol Cynthia White Peterson.....Aurora, Illinois
 Charles Neuman Petty.....Salt Lake City, Utah
¹Mary Jane Porter.....Menlo Park
 Calvin Eugene Rakes.....Bentonville, Arkansas
¹Arline Lorraine Raymond.....San Diego
 Cynthia Jane Rickard.....Oakland
 Brian George Sakai.....Las Vegas, Nevada
 Patricia Sakai.....Hayward
 Jacqueline Maria Salas.....Santa Clara
 Alan Keith Saunders.....Oakland
 Gloria Jacqueline Savage.....San Francisco
 Jayme Lee Bartell Schindler.....Rancho La Costa
 John Henry Schneider.....Reno, Nevada
 Julianne Schreiner.....Salt Lake City, Utah
²Joan Mari Schwichtenberg.....Palo Alto
¹Carolyn Rey Shaffer.....Woodland
³Oliver Herbert Shaffer.....Galt
¹Barbara Helen Sherman.....Safford, Arizona
 Alpha Orjean Smith.....Jacksonville, Florida
¹Delbert Bower Smith.....Mountain View
 Ian David Smith.....Sydney, Australia
 Courtney Elizabeth Soule.....Tacoma, Washington
 Laura Helen Stephenson.....Concord
 Marcia Lee Martin Stephenson.....Santa Clara
 Judith Ann Sutton.....Roslyn Heights, New York
 Susan Buhler Taber.....Salt Lake City, Utah
¹Barbara Joyce M. Tardif.....Berkeley
¹Peter Harry Taylor.....Portland, Oregon

Jane Ellen Telischak.....	Saratoga
Sandra Helen Boddum Thacker.....	Los Altos Hills
Laurel Wai-Eng Tom.....	Honolulu, Hawaii
¹ Forrest Lee Turpen.....	Lacon, Illinois
¹ Stephen Vanek, Jr.	Birch Tree, Missouri
¹ Richard Stuart Varney.....	San Jose
¹ Carol Jane Vinson.....	Carmichael
¹ Glenna Mildred Jones Violette.....	Palo Alto
James Nicholas Walsh, Jr.	San Francisco
Gerald Sherman Warner.....	Carmel
Jan Marie Watermulder.....	Ann Arbor, Michigan
Barbara Horton-Savory Waters.....	Georgetown, Guyana
Judith Weinstein.....	Chicago, Illinois
Thomas James Weisrock.....	Phoenix, Arizona
Catherine Ann Wiehe.....	Farley, Missouri
² Mary Melinda Wilkinson.....	Toledo, Ohio
Roberta Marie Williams.....	Stockton
² Holly Marie Ingram Wilson.....	Corona Del Mar
Susan Jeanette Wilson.....	San Francisco
Jacquelyn Rona Wities.....	New York, New York
¹ Robert James Woodhead.....	Danville
¹ Jo Ann Marlene Wright.....	Santa Cruz
¹ Eva Long Yang.....	Hayward
Louis Ernest Yeager III.....	Highland
Jack David Yellin.....	Beverly Hills
Ronald Dennis Zarcone.....	Fremont
Andrew Arthur Zucker.....	New York, New York

TEACHING

¹ Bette Carleen Acuff (Art).....	Douglas, Arizona
¹ George Peter Anastasia (Mathematics).....	Windsor, Connecticut
¹ William Francis Barnard, Jr. (Mathematics).....	Virginia Beach, Virginia
Diane Marie Barwe (Mathematics).....	Evansville, Indiana
¹ John Wesley Beckett, Jr. (Mathematics).....	La Jolla
¹ Vincent Peter Bono (Mathematics).....	New York, New York
¹ William Bussey Burruss (Mathematics).....	Alexandria, Virginia
² Marjorie Florence Costello (English).....	Westfield, Massachusetts
¹ Judy Anne Harman Cotter (Spanish).....	Los Altos
Margaret Gale Duff (Mathematics).....	Wayzata, Minnesota
² Janet Helen Duggan (Mathematics).....	Spokane, Washington
¹ William Edward Elstran (Mathematics).....	Chippewa Falls, Wisconsin
Dorothy Anne Russell Evans (French).....	Stanford
¹ James Theodore Gessele (German).....	Mercer, North Dakota
² Agustin Alberto de la Guardia, Jr. (Spanish).....	San Jose
³ Mary Margaret Headrick (Art).....	Palo Alto
¹ Louise Dorothea Henry (English).....	Spokane, Washington
¹ Donald Lewis Hermanson (Mathematics).....	Fremont
¹ William Clifton Jones, Jr. (Mathematics).....	Santa Monica
¹ Helen Irene Kerwin (Mathematics).....	St. Paul, Minnesota
¹ Cleo Darrell Kirkland (History).....	San Jose
² Mary Hilaire Land (French).....	Palo Alto
³ Martha Joseph Lenahan (Mathematics).....	Louisville, Kentucky
¹ David Moon Lew (Mathematics).....	San Francisco
³ Maryann McKay (Spanish).....	San Mateo
¹ Myrtle Lee Edwards Malone (Mathematics).....	San Augustine, Texas
¹ Marvin Eugene Marshaus (Mathematics).....	Defiance, Ohio
Rebecca Lou Mayo (Biological Sciences).....	Wiesbaden, Germany

- ¹Reuben William Miller, Jr. (Mathematics).....Dallas, Texas
¹Pauline Glenn Mitchell (Mathematics).....Cairo, Georgia
¹Harold James Mlsna (Mathematics).....Oconomowoc, Wisconsin
³John Evans Moreland (Mathematics).....Hayward, Wisconsin
¹Joseph Andrew Norton (Mathematics).....Monterey
¹David Hideshi Ogawa (Mathematics).....Granada Hills
¹Carl Edwin Paxton (Mathematics).....Walton, West Virginia
¹Dal LeRoy Pope (Mathematics).....Roseville
¹C. Clinton Porter (Mathematics).....Port Ludlow, Washington
¹Richard Mark Reis (Physical Sciences).....Canoga Park
¹Karen Louise Ryan de Renne (Spanish).....Ann Arbor, Michigan
¹John Joseph Rohr (Mathematics).....Buffalo, New York
¹Marvin Lloyd Ross (Mathematics).....Fairfax, Virginia
¹Donald Eugene Schneider (Mathematics).....Fresno
¹Claudia Kathryn Schoonhoven (Sociology).....Mountain View
³Paul Lawrence Schumacher (Mathematics).....St. Paul, Minnesota
¹Stanley Wilson Spees (Mathematics).....Canton, Ohio
¹Lloyd Vern Wilcox (Mathematics).....Long Beach
¹Tony Andonios Zaharias (Mathematics).....Santa Barbara

Doctor of Education

- Bernard Barrish.....Redwood City
 Dissertation: Inductive Versus Deductive Teaching Strategies with High and Low Divergent Thinkers.
 Cornelius Francis Butler.....Watertown, Massachusetts
 Dissertation: A Political Systems Analysis of a Federal Innovation Model.
 John Aloysius Chandler.....Hayward
 Dissertation: A Report on the Evaluation of Nongraded Elementary Schools in California.
³John Newton Davis.....San Jose
 Dissertation: The Effects of High School Coordinate Geometry.
 Norma Mathilda Johnson Dimmitt.....Seattle, Washington
 Dissertation: A Study of Training and Photographic Feedback Methods for Promoting Accurate Teacher Perception of Student Attending Behavior.
²Kenneth Eugene Fahsbender.....Bakersfield
 Dissertation: A Selective System of Faculty Advising as a Means of Implementing Community College Counseling.
³Maria Monserrate Flores-Hernandez.....Rio Piedras, Puerto Rico
 Dissertation: Teachers' Class Discussion Variables Related to Student Participation and Opinion.
³Lon Andrew Gault.....Western Springs, Illinois
 Dissertation: California College Professors and the State Loyalty Oath, 1950-68.
²Joseph Ronald Higgins.....New York, New York
 Dissertation: Performance Phenomena Involved in Arresting Errors in Movement.
³Barbara Adele Celse Hunt.....Newport Beach
 Dissertation: Interactions Between Minority and Majority Members of Small Groups.
 Charles Francis Kenney.....San Juan Capistrano
 Dissertation: Critical Requirements in Negotiations Between Teachers and Boards of Education.
 Wilford Rollin King.....Placerville
 Dissertation: The Effects of a T-Group on Teacher Self-Perception and Classroom Behavior.
³Olan Loy Knight.....Little Rock, Arkansas
 Dissertation: Teachers' Participation in Educational Change Related to Their Judgements of Accomplishment.
 Dene Randall Lawson.....Redwood City
 Dissertation: Indicators of Teacher Ability to Relate to Students.
 James Hickman Lytle.....Buffalo, New York
 Dissertation: A Study of Interpersonal Leadership Styles of Pre-Service Teacher Trainees.
 James Marlin Oswald.....Salt Lake City, Utah
 Dissertation: Instructor Specified Instructional Objectives and Achievement of Social Studies Knowledge and Comprehension.

- ³Peter Grant Palches.....San Mateo
Dissertation: Perceived Participation and Perceived Predictability as Determinants of Teacher Satisfaction with Design-Making.
- Jane Louise Steig Parsons.....Palo Alto
Dissertation: Anxiety and Teaching Competence.
- ⁸William Edward Penny.....White Plains, New York
Dissertation: Characteristics of Educators Involved in the Change Process.
- ¹Robert Harry Pinney.....Kirkland, Washington
Dissertation: Presentational Behaviors Related to Success in Teaching.
- James Patrick Reid.....Ames, Iowa
Dissertation: The San Diego City-County Camp Commission: A Case Study of an Organization.
- Rodger Scott Rickard.....Cleveland Heights, Ohio
Dissertation: An Explication of the Role of Aesthetic Value in American Physical Education: A Conceptual Analysis of Physical Education Literature.
- ²Violet Helen Ban Robinson.....San Bruno
Dissertation: An Investigation of the Performance of Kindergarten Children on Quantitative Class Inclusion Tasks.
- LaVoneia Canada Steele.....Chicago, Illinois
Dissertation: The Effect of Two Teacher Aide Organizational Systems and Teacher Role Expectations upon the Duties of Teacher Aides.

Doctor of Philosophy

- ¹Robert Fred Arnové.....Evanston, Illinois
Dissertation: The Impact of University Social Structure on Student Alienation: A Venezuelan Study.
- ³Diana Esther Rivera Bartley.....Mequon, Wisconsin
Dissertation: The Foreign Language Curriculum at the Level of the General Secondary Polytechnical School Specialized in Foreign Languages in the R.S.F.S.R.
- Roger Mendenhall Baty.....Bozeman, Montana
Dissertation: The Effect of Cross-Cultural Inservice Training on Selected Attitudes of Elementary School Teacher Volunteers: A Field Experiment.
- ²Robert Kieth Binford.....Arvada, Colorado
Dissertation: State Coordination of Public Higher Education: A Survey and an Assessment.
- Frank Alfred Brunetti, Jr.Sparks, Nevada
Minor: Sociology.
Dissertation: The Teacher in the Authority Structure of the Elementary School: A Study of Open-Space and Self-Contained Classroom Schools.
- ²Robert Dale Carey.....Monrovia, Liberia
Dissertation: Church-Sponsored Education and National Development in Nigeria.
- ¹Martin Lawrence Collis.....London, England
Minor: Physiology.
Dissertation: The Effects of a Sustained Training Program of Breath-Hold Swimming on Selected Physiological Parameters and Swimming Performance.
- Carolyn Lee Compton.....Dayton, Ohio
Minor: Psychology.
Dissertation: The Relationship Between Intersensory Integration Skills and Multisensory Approaches in Remedial Readers.
- Ted Lincoln Cooper.....Seattle, Washington
Dissertation: The Concepts of Knowledge of Peirce and Dewey: The Relation to Education.
- ¹Josefina Rian Cortés.....Libon, Philippines
Dissertation: Factors Associated with the Migration of High-Level Persons from the Philippines to the U.S.A.
- ²Susan Claire Belden Crockenberg.....Syracuse, New York
Minor: Psychology.
Dissertation: The Effect of a Child's Expectancy of Success on His Persistence.
- Vincent Albert Crockenberg.....Binghamton, New York
Minor: Philosophy.
Dissertation: Civil Disobedience as a Problem in the Philosophy of Education.
- ¹Linda Joy Feinman.....Easton, Pennsylvania
Minor: English.
Dissertation: An Investigation of Psycholinguistic Factors Contributing to Comprehension Difficulty in Initial Reading.
- ³William Parmer Fuller IV.....Palo Alto
Dissertation: Education, Training and Worker Productivity: A Study of Skilled Workers in Two Factories in South India.

- ²Elizabeth Ellen Macken Gammon.....Omaha, Nebraska
Dissertation: A Syntactical Analysis of Some First-Grade Readers
- Gerald Wesley Hamrin.....Albuquerque, New Mexico
Minor: Psychology.
Dissertation: An Analysis of Factors Influencing Educational Change.
- Joachim Helmut Laubsch.....Königsberg, Germany
Dissertation: An Adaptive Teaching System for Optimal Item Allocation.
- Hazel Olive Leler.....Red Cloud, Nebraska
Minor: Psychology.
Dissertation: Mother-Child Interaction and Language Performance in Young Disadvantaged Negro Children.
- ³John Robert Lenox.....Miami, Florida
Dissertation: A Failure of Hypnotic State to Effect Numerical Task Performance.
- Donald Ross Liggett.....Grinnell, Iowa
Minor: Psychology.
Dissertation: Financial Aid and Socio-Economic Composition in Liberal Arts Colleges.
- Marcia Frances Cyrog Linn.....Whittier
Minor: Psychology.
Dissertation: Effects of a Training Procedure on Matrix Performance and on Transfer Tasks.
- Jeanette Elaine Prince Lockley.....Richmond
Dissertation: A Comparative Study of Some Cluster Analytic Techniques with Application to the Mathematics Achievement in Junior High Schools.
- ³Mark Rodney Lohman.....Hillsdale, New Jersey
Minor: Sociology.
Dissertation: Changing a Racial Status Ordering by Means of Role Modeling.
- ²Philip Charles McKnight II.....Wichita, Kansas
Minor: Sociology.
Dissertation: Behavioral Responsiveness of Teachers in Verbal Interactions with Students.
- ²Nancy Russell Hamilton Markle.....San Bernardino
Dissertation: Differential Response to Instruction Designed to Call upon Spatial and Verbal Aptitudes.
- Dennis Earl Nelson.....Portland, Oregon
Minor: Psychology.
Dissertation: An Experimental Evaluation of Methods of Teaching Students to Consider Alternative Problem Solutions.
- ¹Floyd Leon Paulson, Jr.Napa
Dissertation: The Effects of Memory Support and Concept Difficulty on the Learning of Test-Anxious Children.
- ¹Richard Pearse.....Sydney, Australia
Dissertation: The Effect of Interaction Conditions upon Inter-Ethnic Attitudes in a Tribal Society: Forced Compliance and Social Acceptance.
- ³Judith Alice Valla Ramirez.....Cranford, New Jersey
Minor: Sociology.
Dissertation: Effects of Tutorial Experiences on the Problem-Solving Behavior of Sixth-Graders.
- ¹Mara Lee Southern.....San Rafael
Dissertation: Language-Cognitive Enhancement of Disadvantaged Preschool Children Through Modeling Procedures.
- Carlton James Spring, Jr.....San Antonio, Texas
Dissertation: Same-Different Reaction Time for Letters in Dyslexic and Normal Children.
- Jane Ainel Stallings.....South Bend, Indiana
Minor: Psychology.
Dissertation: Reading Methods and Sequencing Abilities: An Interaction Study in Beginning Reading.
- ¹Nancy Lou Solomon Stein.....Youngstown, Ohio
Minor: Psychology.
Dissertation: The Modification of Impulsivity Using Two Types of Cue Discrimination Training.
- ²Rudolph Weber Tretten, Jr.Pacifica
Dissertation: Changing Status Space in Negro Teacher-Pupil Interaction.
- ²Edwin Stanton Van Gorder III.....Audubon, Iowa
Minor: Philosophy.
Dissertation: Some Comparisons of Morale in Selected Independent Secondary Schools.
- Louis Weiss.....Minneapolis, Minnesota
Minor: Linguistics.
Dissertation: Auditory Discrimination and Pronunciation of French Vowel Phonemes.
- Walter Wilhelm Zwirner.....Calgary, Alberta, Canada
Dissertation: The Procrustes Model in Factor Analysis: Evaluation of Two Alternative Criteria.

SCHOOL OF ENGINEERING

WILLIAM M. KAYS, *Chairman*
of *Mechanical Engineering*

Master of Science

AERONAUTICS AND ASTRONAUTICS

¹ Henry George Adelman, Jr.	Franklin, Pennsylvania
Roger Wayne Bailey	Abilene, Texas
Dean Curtis Borgman	San Jose
² Alan Charlton Brown	Nottingham, England
Maurice Henry Bunn	Mount Vision, New York
¹ Frank Cardile	White Plains, New York
² Ralph Lawrence Carmichael	Mountain View
³ Li Ko Chang	Hopei, China
Dudley Harrison Chase	Cranford, New Jersey
James Alan Davidson	Homewood, Illinois
¹ Charles Stevens Dilbeck	Wichita, Kansas
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³ Lothar Harms	Göttingen, Germany
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John Karl Hedrick	Freeport, New York
Dewey Harper Hodges	Clarksville, Tennessee
² Phillip Warren Jackson	Toronto, Ontario, Canada
³ Donald Meck Ketner	Schuylkill Haven, Pennsylvania
Robert Hargreaves Kewley	Wilmington, Delaware
² John William Lieberherr	Colorado Springs, Colorado
¹ Charles Stewart Marantz	Chicago, Illinois
² Pradip Girishchandra Parikh	Bombay, India
Nicholas John Pekelsma	Grayslake, Illinois
² Eugene John Pelka	LaSalle, Illinois
Robert Frank Pelzmann, Jr.	Fairfield
¹ Billy Robert Sanders	Salinas
³ Charles Arthur Smith	Detroit, Michigan
¹ Frank William Steinle, Jr.	Milpitas
Theodore Carl Tenny	Joplin, Missouri
³ Henry Lucius Thomas	Paso Robles
³ Hakon Thuve	Stabekk, Norway
¹ Alan William Withers	Irving, Texas
³ Si Yoong Yoo	Seoul, Korea

APPLIED MECHANICS

¹ John Charles Bobick	Yatesboro, Pennsylvania
Andre Marie Faessel	Paris, France
Stanton Arnold Glantz	Toledo, Ohio
James Thomas Hannam	Cleveland, Ohio
² Samuel Terril Heidelberg, Jr.	Pascagoula, Mississippi
Warren James Hoskins	Santa Clara
² Jay Orvel Johnston	Phoenix, Arizona
John Joseph Mariano	Stamford, Connecticut
Charles Quentin Miller	Baltimore, Maryland
¹ Michael John Nicholson	San Bernardino
¹ Donald Clive Reed	Patchogue, New York

CHEMICAL ENGINEERING

³ Jean-Paul André Barthés	Paris, France
¹ Michael Carlyle Brinkman Stockton	Mexico City, D.F.

Chai-Ming Chao.....	Honan, China
² Sohrab Framroze Dorabji.....	Bombay, India
Kazuyoshi Isogaya.....	Shizuoka, Japan
Tetsuo Kanda.....	Yokohama, Japan
¹ Raymond Uytensu Kokseng.....	Cebu City, Philippines
¹ Tony Keng Ling.....	China
⁸ Thomas Mitchell McDonald.....	Lombard, Illinois
² Tiong Gac Ngo.....	Manila, Philippines
⁸ Michael Edward Paulaitis.....	Lombard, Illinois
¹ David Richard Sageman.....	Cadillac, Michigan

CIVIL ENGINEERING

³ Asfaha Abraha.....	Addis Abeba, Ethiopia
Richard Orville Adams.....	Chico
Romárico Arroyo-Marroquin.....	Mexico City, D.F.
George A. Baer, Jr.....	St. Louis, Missouri
² Jorge Eduardo Ballesteros.....	Mexico City, D.F.
¹ William Edmond Beasley.....	Davenport, Iowa
James Ellsworth Beck.....	Hagerstown, Maryland
⁸ Edward Bell.....	Wilmington, Delaware
² Robert Bruce Bittner.....	Lodi
Ansel Benjamin Bump, Jr.....	Lomita
Albert Lee Cates.....	Atwood, Oklahoma
⁸ Spyridon Cavounidis.....	Athens, Greece
Robert Warren Clark.....	Hudson, Ohio
William Camlin Cooke.....	Glastonbury, Connecticut
Claude Demers.....	Quebec, Quebec, Canada
Vikram Manubhai Desai.....	Poona, India
Gene Robert Dretke.....	New Orleans, Louisiana
⁸ Nuri Moosa El-Mohammadi.....	Falluja, Iraq
Thomas Howard Emsley.....	Aurora, Illinois
Carl Francis Enson, Jr.....	Woodlyn, Pennsylvania
¹ Frederick George Ernst.....	Fort Lauderdale, Florida
² Roy Bruce Evans.....	Anchorage, Alaska
James Richard Faris.....	Pomona
Louis Anthony Fermo.....	Lake Worth, Florida
Max Eugene Foote.....	Paola, Kansas
Larry Birch Ford.....	Modesto
Henry Roger Frauenfelder.....	Somerton, Arizona
¹ George David Fraunces.....	Wynnewood, Pennsylvania
Marvin Charles Gabert.....	Bonniers Ferry, Idaho
¹ Steven Allan Gherini.....	Gilroy
² Ralph Steven Gillotti.....	West Des Moines, Iowa
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William Warren Hill.....	Spencerport, New York
² John Francis Igoe, Jr.....	Philadelphia, Pennsylvania
Guillermo Interiano-Moyano.....	Mexico City, D.F.
Joseph William Janick.....	Chicago, Illinois
² Charles William Kaplan.....	San Francisco
Harold Thomas Kinback.....	Johnstown, Pennsylvania
Maurice Alfred Kruth.....	Ukiah
Ramchandra Bidesh Kulkarni.....	Sangli, India
Robert M. Lee.....	Hayward
Elio Rando LeMaro.....	Palo Alto
¹ Daniel Bynon Leonard, Jr.....	Lansford, Pennsylvania
Michael David McCaffery.....	Louisville, Kentucky
⁸ William Thomas McFarlane.....	Wichita, Kansas
² Elsie Cecilia Maginnis.....	Charleston, South Carolina
² Aquiles Eduardo Marcano-Lopez.....	Caracas, Venezuela
Sandy Joel Marenberg.....	Rockville, Maryland

Joaquim Osório Martins-Ferreira.....	Rio de Janeiro, Brazil
David Earl Mattern.....	Buffalo, New York
Arnold Woodruff Miller, Jr.	Rexburg, Idaho
Ashok Kumar Mittal.....	Indore, India
Phillips Morrison III.....	Seattle, Washington
Ramesh Prahladrai Murarka.....	Bombay, India
² Thomas Frick Nance.....	Honolulu, Hawaii
Roger James Nelson.....	Portland, Oregon
Jerome Morrow Normann.....	Sterling, Virginia
¹ Wayne Lamar O'Bannon.....	Metairie, Louisiana
Yoshihisa Ohbayashi.....	Ashiya-shi, Japan
Rui de Souza Oliveira.....	Casabranca, Brazil
¹ Afonso Cardoso Palmeiro.....	Rio de Janeiro, Brazil
Arvind Manilal Patel.....	Nagpur, India
Arvindbhai Hathibhai Patel.....	Madhi, India
John Norrie Petersen.....	Loleta
John Lee Peterson.....	Long Beach
Ralph Randall Peterson.....	Corvallis, Oregon
James Henry Pope.....	Lodi
William Frank Poulton.....	Oakland
Krishan Dandumal Rajani.....	Bombay, India
David Norman Reinhard.....	Tucson, Arizona
¹ Richard Hardwicke Rice, Jr.	Monterey
Donald Curtis Rigglin, Jr.	Scottsdale, Pennsylvania
Brian Pratt Robinson.....	San Leandro
¹ Isaura Mireya Romero-Requena.....	Ocumare del Tuy, Venezuela
Adil Joseph Salem.....	Jacksonville, Florida
James John Sartoris II.....	Durango, Colorado
Michael John Scherer.....	New York, New York
Adam Theodore Schildge, Jr.	San Francisco
² Robert Allen Schneider.....	Madera
Robert Royer Scholz.....	Washington, D.C.
Michael David Schomaker.....	Concord
Carl Frank Schrader.....	Bakersfield
³ Charles Raymond Schrader.....	Portland, Oregon
William Alfred Simmons.....	Elizabeth City, North Carolina
Geoffrey Guy Skeen.....	Johannesburg, South Africa
Robert Gordon Smith.....	Reno, Nevada
Lynn Dickson Spraggs.....	Armstrong, B.C., Canada
Robert William Stenfors.....	Hudson, Wisconsin
Frank Solly Stern.....	Cape Town, South Africa
Donald Edward Stewart.....	Eureka
Kenneth Evans Stinson.....	Millbrae
² Michael Lee Sykes.....	San Bernardino
Robert Dale Tanberg.....	Soldier, Iowa
Sidney Harold Tanner.....	Hardin, Texas
Thomas Carl Taylor.....	Brush, Colorado
Nguyen Huu Toai.....	Paris, France
Charles David Tonkin.....	Palo Alto
James Walter Tremblay.....	Salem, Massachusetts
Aynur Ünal.....	Ankara, Turkey
David Edwin Vandershaf.....	Sacramento
Rafael Enrique Villate.....	Bogotá, Colombia
Douglas John Vossbrinck.....	Saratoga
David Lowell Wallace.....	Santa Rosa
Douglas Charles Wallway.....	Okobojo, Iowa
Robert Charles Wamstad.....	Boulder City, Nevada
James David Weidinger.....	Phoenix, Arizona
Charles Robert Williams.....	Ventura
John Charles Wise.....	Boulder, Colorado
Anibal Yrarrazaval-C.....	Santiago, Chile
³ Harry Irving Zimmer III.....	El Paso, Texas

ELECTRICAL ENGINEERING

- ²William Clay Adams, Jr. Trenton, North Carolina
¹Richard Adleman. Fords, New Jersey
²Gary Lee Alderman. Dania, Florida
 Ronald Gordon Allen. Coventry, Rhode Island
 Marc Michel Appell. Paris, France
²Henry Duenas Arango. Cali, Colombia
 Ronald Dean Athay. Vancouver, Washington
 Kenneth Wagner Aull
 Michael Arthur Aymar. Millbrae
 Charles Mark Baker. Kingfisher, Oklahoma
 Phillip Terry Balazs. Shaker Heights, Ohio
¹Robert Mitchel Barkan. Philadelphia, Pennsylvania
 Roy Clyde Bartholomae. Pittsburgh, Pennsylvania
 Paul Raymond Beck. Princeton, New Jersey
 Michael Franklin Becker. Cheverly, Maryland
 Jerry Bernardini. New York, New York
 Henry Martin Blume, Jr. Portola Valley
 Jeffrey Harding Bower. Emmaus, Pennsylvania
 Nelson Fay Bright. Hingham, Massachusetts
³Armando Larcher Brinca. Lisboa, Portugal
 Elvin Clarence Bryant. Williamsburg, Kentucky
 David Michael Bubenik. Pueblo, Colorado
 Charles Bures. Ellicott City, Maryland
¹James Michael Burns. Stamford, Connecticut
 James Russell Carreker. Athens, Georgia
 James R. Caruthers. Wentzville, Missouri
 Chi Keng Chen. Lowell, Massachusetts
 Richard Louis Chiburis. Omaha, Nebraska
¹Yih Ming Chu. Taipei, Taiwan
²William Guy Clemens. San Jose
 Douglas Marvin Clifford. Sunnyvale
 Dennis Wayne Cooper. Sacramento
 John Joseph Corcoran. Iowa City, Iowa
³David Franklin Cox. San Jose
¹Tommy Clay Cruce. Bessemer, Alabama
 James Anthony Cunningham. New York, New York
³Noel Edwin Damon. Sunnyvale
³Nelson Henriques Dantas. Manaus, Brazil
 James Alvin Davis. Mountain View
 John Raymond Delaney. Hingham, Massachusetts
²Parvati Dev. New Delhi, India
 Michael Earl Dick. Grand Ledge, Michigan
¹Thomas Lee Downey. Albuquerque, New Mexico
 René Louis Doyard. Paris, France
 Don Ray Draper. Orlando, Oklahoma
²James Woodward Dyche. Cupertino
¹Dale Allen Eflein. Valparaiso, Florida
¹Howard Bruce Faïres. Colfax, Washington
¹Gilson Monteiro de Barros Fonseca. Rio de Janeiro, Brazil
²Michael S. Frankel. Los Angeles
 Hugh Finch Frohbach. Sunnyvale
 Robert Alan Gallien. Antioch
¹Arturo Gandara. Lordsburg, New Mexico
 Stephen Gregory Gannon. Glen Ellyn, Illinois
 Paul Ebner Gartz. Chicago, Illinois
 François Régis Y. M. Gayet. Dijon, France
 Terry Gene Glagowski. Trumbull, Connecticut
³Gary Babcock Gordon. Cupertino
 Werner Graf. Basel, Switzerland
 Bruce David Hansche. Albuquerque, New Mexico
 James Cameron Harmon. Brigham City, Utah

Michael Howard Hartung	Bourbon, Missouri
¹ Michael John Heckman	Downey
² Charles Robert Helms	San Jose
Marvin Lewis Higgins	Elsinore, Utah
Bryan Eugene Hockett	Miles City, Montana
Allan Michael Hofmann	Plainview, New York
Clifford Roy Hollander	Chicago, Illinois
Cornelis Hendrikus Hoogendoorn	Pretoria, South Africa
Lee Frederick Horney II	Norton, Kansas
³ William Val Hudson	Roswell, New Mexico
Patrice Hummel	Bois-Colombes, France
Allan Richard Hunt	Burnsville, Minnesota
Charles Fitzhugh James	Kannapolis, North Carolina
Christopher Harry Johnson	Malibu
² John Kaunitz	Sydney, Australia
William Guild Kellogg	Barstow
Denis Raymond Kertz	Bloomsdale, Missouri
Norman Franklin Krasner	Union, New Jersey
Andrew Hing Cheong Kung	Hong Kong
² Harry Bosco Kwok	Hong Kong
William French Lake, Jr.	El Cajon
Tore Langemyr Larsen	Oslo, Norway
Daniel Claude Lebidois	Nice, France
Jean-Louis Leignel	Paris, France
² Thierry A. de Limelette	Brussels, Belgium
Tom Loyd Lockhart	Park Ridge, Illinois
¹ John Paul Long	Lebanon, Kansas
Steven Henry Lyons	Lakewood
Robert James McGlone, Jr.	Cresskill, New Jersey
Frederick Lawton Mansfield	Newtonville, Massachusetts
¹ Jean Charles Meier	Paris, France
¹ Roger Douglas Melen	Chico
³ Alexandre Paul Louis Merametsdjan	La Garrenne-Colombes, France
² Nicolas Josef Moll	Palo Alto
Martin C. Morf	Winterthur, Switzerland
¹ Michael Bruce Murphy	Melrose, New Mexico
Armen Nahapetian	Tehran, Iran
Henry Glead Nebeker	Riverside
Michael Joe Neering	Bay City, Michigan
¹ Jorge Obregon-Navarrete	Queretaro, Mexico
² Gregory Alan Olsen	Salem, Oregon
³ Ronald Duane Olson	Mountain View
John Andrew Orr	Mount Carmel, Illinois
Charles Wesley Orrestad	Spokane, Washington
Michael Olaf Paiva	Hamburg, Germany
³ Donald Arthur Pantle	Cupertino
Jeffrey Moore Parker	Cupertino
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Forest Preston III	Oxford, Pennsylvania
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³ Don Richard Reynolds	Portland, Oregon
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¹ Charles Ambrose Richardson, Jr.	Linwood, New Jersey
Scott Chandler Richmond	Seattle, Washington
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- ²Steven Neil Sanders.....Ogden, Utah
 Leonard Eric Shar.....Johannesburg, South Africa
 James Harper Shelton.....Huntsville, Alabama
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 Shiraz Mohamedali Shivji.....Dar es Salaam, Tanzania
 Richard Thomas Shoenhair.....Stanford
 Dale William Shoup.....Seattle, Washington
 Edward Eugene Simpson.....Seattle, Washington
 James Emerson Smith.....Ogdensburg, New York
 Todd Wyant Sprengle.....Rochester, New York
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 Dale Eugene Stone.....Buckhannon, West Virginia
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 Robert James Turner.....East Hampton, Connecticut
 Terry Lynn Vance.....Hillsdale, Oklahoma
 Frederick Eugene Weber.....Grampian, Pennsylvania
 Garrett Reed Welsh.....Weston, Connecticut
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 Neal Monte Williams.....Dallas, Texas
 Paul Kent Williams.....Albuquerque, New Mexico
 William Thomas Williams.....Laurel, Montana
 Gordon Douglas Woods.....Fairfax, Virginia
 Mark Lowell Yelderman.....Rosenberg, Texas
 Francis Peter Young.....Eddington, Pennsylvania
²Henry Zwi Zauderer.....Cupertino
³Walter Bruno Zavoli.....New York, New York
¹Nathan Jerome Zilberg.....West Hartford, Connecticut

ENGINEERING SCIENCE

- Frank Michael Bordelon.....New Orleans, Louisiana
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ENGINEERING-ECONOMIC SYSTEMS

- ¹William Robert Bechtold.....Rochester, New York
²Ronald Kai-shing Ching.....Menlo Park
³Yannis Menelaos Ioannides.....Athens, Greece
 Luis Alberto Jimenez.....Santiago, Chile
 Henry Augustus Johnson III.....Cumberland, Maryland
 Olivier Jacques Koenig.....Paris, France
 Kenneth Paul Kuskey.....Ontario
³Ernest Harry Manuel, Jr.Fullerton
 Peter Alan Morris.....Palo Alto
 Vasilis Nicoletopoulos.....Athens, Greece
¹Violeta Parodi-Mantilla.....Caracas, Venezuela
 Jean-Pierre Andre Ponsard.....Paris, France
³Rodney Peter Rempt.....Van Nuys
 Guillaume Jean Segalen.....Paris, France
 Jacques Vincent.....Meaux, France
 Joel Samuel Yudken.....Flushing, New York

INDUSTRIAL ENGINEERING

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Roger Clayden.....	Monte Sereno
¹ Ronald Teixeira Coelho.....	Rio de Janeiro, Brazil
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² Elio Alfonso Cunto-Dominguez.....	Caracas, Venezuela
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² Daniel Michael Ferguson.....	Lincoln Park, Michigan
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Donavon Ray Fothergill.....	San Antonio, Texas
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William Michael Hafferty.....	Gridley
Arthur Cleveland Hester.....	Chicago, Illinois
² Largio Enrique Jimenez.....	Aregue, Venezuela
¹ David Gary Jorgensen.....	Palo Alto
³ Ramesh Umashanker Joshi.....	Ahmedabad, India
Thorolf Kildal.....	Oslo, Norway
Alexandre Henriques Leal-Filho.....	Rio de Janeiro, Brazil
Dominique Claude Lemarchand.....	Paris, France
³ Paulo Mattos de Lemos.....	Rio de Janeiro, Brazil
¹ Eduardo Libreros-Davila.....	Bogotá, Colombia
³ Richard Martin Luhring.....	Panorama City
Jose Ah Ping Madera.....	Manila, Philippines
¹ Luis Martinez-Lavin.....	Mexico City, D.F.
James William Monroe.....	Long Beach
Ahmad Motamedi.....	Abadan, Iran
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Stephen Petrik.....	Passaic, New Jersey
Devi Singh Rajpurohit.....	Bombay, India
¹ Steven Hawley Richard.....	Tucson, Arizona
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Peter Ruben.....	Calgary, Alberta, Canada
² Parvez Salim.....	Karachi, Pakistan
Miguel Sampol-Pou.....	Curitiba, Brazil
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Jonathan Robert Shaffer.....	Sterling, Illinois
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² Quentin Charles Smith.....	Natural Bridge, New York
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Bruno Turpin.....	Paris, France
Fernando de Jesus Valdes-Medina.....	Culiacan, Mexico
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MATERIALS SCIENCE

² Marcia Fusayo Yamada Almassy.....	Seattle, Washington
¹ Thomas Claude Arnoldussen.....	Appleton, Wisconsin
¹ Robert John Asaro.....	New York, New York
John William Bennett.....	Irwin, Pennsylvania
Necmi Bilir.....	Ankara, Turkey
² Donald Lee Bly.....	Mountain View

- ²Stephen Ray Bolin.....Indianapolis, Indiana
 Donald Matthew Brettner.....Los Altos
 Kirk Jon Bundy.....Birmingham, Michigan
 Alberto Miguel Correa.....Mexico City, D.F.
²Benjamin Francis.....Berkeley
 Ralph R. Hovnanian.....Evanston, Illinois
³Richard Warren Lindberg
 Richard Alpha Davis Lucic.....Sunnyvale
²Terry Robert McNelley.....Fort Wayne, Indiana
²David Kidder Matlock.....Austin, Texas
²Ricardo Augusto do Amaral Menezes.....Rio de Janeiro, Brazil
 Pascal Joseph Noronha.....Bombay, India
 Timothy Clark Reiley.....Alton, Illinois
²Walden Clark Rhines.....Gainesville, Florida
 John Thomas Rosenberg.....Menlo Park
 Girdhar Kishindas Shroff.....Bombay, India

MECHANICAL ENGINEERING

- ¹Francis Louis Addressio.....Plainville, Connecticut
 Vinay Kumar Aggarwal.....New Delhi, India
 Aftab Ahmed.....Karachi, West Pakistan
 Donald Leroy Anderson.....Cupertino
 David Edwin Backs.....Bremerton, Washington
 Allan Paul Bakke.....Minneapolis, Minnesota
 Howard Hunter Barney.....Palo Alto
²Thomas Day Baughman.....Warren, Ohio
¹Robert Erle Baumgardner.....Seattle, Washington
¹Douglas Lawrence Bensinger.....Creve Coeur, Missouri
 Bruce Berg.....New Cumberland, Pennsylvania
 Ray Travis Burgard.....Selinsgrove, Pennsylvania
¹Steven Warner Burge.....Picayune, Mississippi
 Glen Rowan Cass.....Altadena
 Gaston Chi Wing Chan.....Kowloon, Hong Kong
 Mladen Kirigin Chargin.....San Jose
³Richard Neils Christensen.....Richfield, Utah
 Gary Lee Clark.....Twin Falls, Idaho
²Jay Allen Cohen.....Pennsauken, New Jersey
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³Alan Curtis Dawson.....Escondido
 Peter John Dirkmaat.....Orderville, Utah
 Thomas David Dressel.....Minneapolis, Minnesota
¹Frederick George Ernst.....Fort Lauderdale, Florida
¹Donald Dean Faehn.....Springfield, Virginia
³Rouyentan Farhadieh.....Tehran, Iran
 Lieh-Chen Fu.....Chekiang, China
¹James Michael Gallagher.....Palo Alto
 Prem Chand Garg.....Mandi Phul, India
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²Jerry Allan Guffey.....Oklahoma City, Oklahoma
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¹Edmund Rhodes Hobbs.....San Rafael
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¹ Calvin Albert Kodres, Jr.	San Jose
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Stephen Thomas McLin.....	Los Angeles
Orrin Mahoney.....	Cupertino
Abraham Wolf Meilich.....	Los Angeles
² Sheldon Ryan Meyer.....	Stockton
¹ Marvin Fewell Moore.....	Dallas, Texas
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Dale Mark Nesbitt.....	Weed Heights, Nevada
¹ Joseph Charles Nolter.....	Mahanoy City, Pennsylvania
John David Nulton.....	Havertown, Pennsylvania
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³ David Wilson Patty.....	Lebec
Farley Peechatka.....	Scotrun, Pennsylvania
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¹ David Alexander Pilati.....	Miami, Florida
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¹ Paul Howard Rothe.....	West Haven, Connecticut
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Edward John Lawrence Spurr.....	Bradford, England
Gregory Paul Starr.....	Hemet
Baljit Sant-Singh Talwar.....	Delhi, India
Johann Tam.....	Monterey
John McLellan Taylor.....	Needles
Richard Michael Uttich.....	Idaho Falls, Idaho
² Jean Louis Van Dievort.....	Brussels, Belgium
² Martin Michael Wallace.....	Sedona, Arizona
¹ Donald Charles Watson, Jr.	Summit, New Jersey
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Daniel Dick Whitney.....	Eugene, Oregon
³ James Lawrence Wiederrich.....	Lodi
¹ Richard Max Wray.....	St. Joseph, Missouri
² Sergio Humberto Zapata-B.....	Merida, Mexico

OPERATIONS RESEARCH

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¹ Robert Glenn Alexander.....	Oxnard
¹ Bruce Douglas Allen.....	Middlefield, Ohio
¹ Jack Thornton Avery.....	San Diego
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Jean-Pierre Marie Boudon.....	Vichy, France
¹ William Carleton Brastow, Jr.	Fairfield, Connecticut
John Eugene Brimm.....	Palo Alto
Richard Irwin Carlson.....	San Jose
Jack En-liang Cheng.....	Taipei, Taiwan
Hubert Lorrain Deneault.....	Montreal, Quebec, Canada
¹ Theodore Francis Driggers.....	Berkeley
Angel Enrique Enciso B.....	Mexico City, D.F.
¹ Clovis Jose Daudt Lyra Darrigue de Faro.....	Rio de Janeiro, Brazil
³ Robert James Finger.....	Evanston, Illinois
¹ O. Frederick Forsyth.....	Los Altos
¹ Stanley Allen Garlick.....	New Orleans, Louisiana
Constance Jean Golden.....	Highland Park, Illinois
Bernard Jean-Pierre Gouriten.....	Eaubonne, France
Jean-Jacques Guy Grimaud.....	Toulouse, France
Patrick Yves Henry.....	Paris, France
² John Charles Hershey.....	Cleveland, Ohio

- ¹Thomas Joseph Hindelang.....Detroit, Michigan
¹Luis Alberto Jimenez.....Santiago, Chile
²John Bernard Killick.....Calgary, Alberta, Canada
Philippe Hervé Lespagnon.....Paris, France
Honesto Galang Nuqui.....Manila, Philippines
¹Israel Vicente Peña-C.....Caracas, Venezuela
Marion Pinot.....Paris, France
Bert Justinus Willem Postma.....Eindhoven, Netherlands
Andre R. Premont.....Quebec, Quebec, Canada
³Willis Taylor Rasmussen.....El Cajon
Firmin Rentmeesters.....Oud-Heverlee, Belgium
Arvin Francis Rodrigues.....Bombay, India
²Michel Marcel Rogson.....San Francisco
Constance Elizabeth Sauer.....Matawan, New Jersey
Joseph David Schaefer.....Minot, North Dakota
¹Peter Friedrich Schlenzka.....Köln, Germany
Alan Schulhoff.....New York, New York
Robert Dixon Speas, Jr.Manhasset, New York
²Franklin Thomas Tilton.....Laconia, New Hampshire
Kurt Edward Wegner.....Van Nuys
³Julie Isadora Herman Zalkind.....Los Angeles
³Gregory Andrew Zorn.....San Francisco

Engineer

AERONAUTICS AND ASTRONAUTICS

- Li Ko Chang.....Hopei, China
Thesis: An Analytic Study of Transmission of Pulse Waves in Tapered Vessels.
Victor Robert Corsiglia.....Sacramento
Thesis: Wind Tunnel Tests of an Aspect Ratio 1.24 Swept Wing with Leading Edge Blowing Parallel to the Wing Chord Plane.
James Warren Patmore.....South Fork
Thesis: Reducing Nonlinear Accelerometer Calibration Data Using an On-Line Digital Computer.
²Raymond Martin Taylor, Jr.Inglewood
Thesis: A First Approximation Theory to the Effects of Transverse Shear Deformations on the Buckling and Vibration of Fiber-Reinforced Circular Cylindrical Shells: Application to Axial Compression Loading of Boron- and Glass-Epoxy Composites.
Victor Nicholas Vagliente.....Pittsburg
Thesis: Application of the Reissner Principle to the Postbuckling of Plates Exposed to Creep Conditions.
Pierre I. A. Yansouni.....Oud-Heverlee, Belgium
Thesis: Data Processing for Pickoff Parameter Identification.

APPLIED MECHANICS

- ²Randall Coleman Fowler.....Louisville, Kentucky
Thesis: Stability of Rotational Motions of a Dual Spin System.
³Edward Lamar Jeter.....Oklahoma City, Oklahoma
Thesis: A Thermoviscoelastic Study of a Solid Rocket Propellant Grain.

CHEMICAL ENGINEERING

- Felicia Fen-Hwa Yen Peng.....Keelung, Taiwan
Thesis: Infrared Studies on Platinum Support Catalysts.
¹José María Sánchez Antón.....Lasar de la Vera, Spain
Thesis: Optimization Over Boolean Lattices.

CIVIL ENGINEERING

- Russell Bennett Barber.....Syracuse, Utah
Thesis: Refined Rectangular Finite Element for Plane Stress Analysis.
- Gregg Everett Brawndow.....San Marino
Thesis: Computer Programs for Statics and Dynamics of Tier Buildings.
- ²Ronald Wayne Crites.....Gridley
Thesis: Performance of Selected Denitrification Systems.
- Lincoln John Edgar.....Baghdad, Iraq
Thesis: Propagation of Entropy Through Systems of Mathematical Equations.
- ²Paul Edward Fontaine.....St. Louis, Missouri
Thesis: Autoclaved Cellular Concrete.
- ²Charles Albert Kohlhaas.....Albuquerque, New Mexico
Thesis: Non-Linear Programming as a Method of Design of Treatment Facilities for Combined Sewer Effluent.
- ¹Richard William Niewiarowski.....New York, New York
Thesis: The Effect of Cladding on Space Trusses.
- ²Michael Plica, Jr.Palo Alto
Thesis: The Dynamic Characteristics of Tracking Antennas as Influenced by Soil Foundations.

ELECTRICAL ENGINEERING

- ¹Raymond Jones Black, Jr.Las Cruces, New Mexico
Thesis: Nanosecond-Pulse Processing of High Data-Rate Signals
- ³Leon Preston Brooks, Jr.Jacksonville, Florida
Thesis: Linear Frequency Scanning by Time-Varying Linear Delay Filters.
- ¹William Judson Burtis.....North Conway, New Hampshire
Thesis: Magnetic Radiation Observed by the OGO-1 and OGO-3 Broadband VLF Receivers.
- ²Marco Decker.....Naples, Italy
Thesis: Optimal Control with Non-Differentiable Cost Functional.
- ²Richard Roy Erickson.....Anaconda, Montana
Thesis: Optimum Quantization by Adaptive Techniques.
- ³Leonard Stanley Gasiorek.....Detroit, Michigan
Thesis: A Microwave-Oriented Analysis Program.
- ³Dennis John Gausshell.....Beardstown, Illinois
Thesis: Synthesis of Linear Antenna Arrays Using Z Transforms.
- ³Thomas Gibbons Liang.....Pasay City, Philippines
Thesis: Quasiossless Transfer Scattering Matrix Synthesis.
- ¹Horacio Augusto Méndez.....Buenos Aires, Argentina
Thesis: Electromagnetic Field-Strength Measurements in Shielded Enclosures.
- ³Elias Muñoz-Merino.....Madrid, Spain
Thesis: Effect of Arsenic Pressure on Heat Treatment of Liquid Epitaxial GaAs.
- ¹James Calvin Pybus.....Memphis, Tennessee
Thesis: A Multiple Pulse-Train Selection Technique Utilizing an Externally Clocked Shift-Register Delay Line.
- ²Albert John Raimondi.....Mountain View
Thesis: Digital Differential Analyzers.
- ²Reynaldo Huaccho Salazar.....Lima, Peru
Thesis: A Solid State Microwave FM Oscillator for Applications in Radio Communication Systems.
- ³Theodore Albert Schwarz.....East Detroit, Michigan
Thesis: Signal Enhancement Using Correlation Techniques in Linear Recording.
- ²Eric Lee Skuldt.....West Bend, Wisconsin
Thesis: The Use of Transistors as Broadband Voltage-Variable Time Delays.
- ¹John Frank Walkup.....Stanford
Thesis: New Approaches to Nonlinear Receiver Performance Analysis.

INDUSTRIAL ENGINEERING

- ²Richard Leonard Kugler, Jr.San Francisco
Thesis: A Multiproduct, Multilevel Inventory Control System.

- ¹Vishist Kumar Vaid-Raizada.....Stanford
Thesis: The Economic Evaluation of Total Energy Systems.

MATERIALS SCIENCE

- Munro Vardeman Robertson.....Palo Alto
Thesis: The Influence of Thermal-Mechanical Processes on the Development of Fine Spheroidized Structures in High Carbon Steels.

MECHANICAL ENGINEERING

- ¹Hermann Karl Dietz.....Schwenningen, Germany
Thesis: Computation of Gently Curved Surfaces for Comparison and Display.
- ¹Goetz Heinrich Klopfer.....Bloomfield Hills, Michigan
Thesis: The Design of Periodic-Flow Heat Exchangers for Gas Turbine Engines.
- Ali Montakhab.....Shiraz, Iran
Thesis: Performance Characteristics of the Duct Burning Turbofan Engine.
- Richard Norman Olsen.....Cut Bank, Montana
Thesis: Measurement of the Ratio of Neutron Activation to Absorption in Europium.
- Ramesh Keshavlal Shah.....Wadhwan, India
Thesis: Temperature Effectiveness of Multiple Sandwich Rectangular Plate-Fin Surfaces.
- ²Hiroji Watanabe.....Tokyo, Japan
Thesis: Transport Phenomena in Melting Process of Thermoplastics.
- ¹Michael Bau On Young.....Honolulu, Hawaii
Thesis: Glass-Ceramic, Triangular and Hexagonal Passage Surfaces: Heat Transfer and Flow Friction Characteristics.

Doctor of Philosophy

AERONAUTICS AND ASTRONAUTICS

- ²Michael Allan Budin.....Philadelphia, Pennsylvania
Dissertation: Parameter Identification and State Estimation for Linear Systems.
- ¹Dale Leonard Compton.....Sunnyvale
Dissertation: Radiatively Driven Acoustic Waves in a Gas in a Cylindrical Tube: Theory and Experiment at Resonance.
- Donald Leigh Hitzl.....Fresno
Dissertation: Gravity-Gradient Attitude Perturbations of Symmetric and Tri-Axial Satellites near Resonance.
- John Paul Holdren.....San Mateo
Dissertation: Collisionless Stability of an Inhomogeneous, Confined, Planar Plasma.
- Terence Chase Honikman.....Cape Town, South Africa
Dissertation: The Effect of Variations in the Creep Exponent n on the Buckling of Circular Cylindrical Shells in Axial Compression.
- ²Stanley Kenton Jordan.....South Gate
Dissertation: Numerical Solutions for Time-Dependent, Viscous, Incompressible Fluid Flow Past a Circle.
- Ahmed Aly Ahmed Kamel.....Alexandria, Egypt
Dissertation: Perturbation Theory Based on Lie Transforms and Its Application to the Stability of Motion near the Sun-Perturbed Earth-Moon Triangular Libration Points.
- ²Robert Li-hsien Kiang.....China
Dissertation: Nonlinear Theory of Inviscid Taylor Instability near the Cutoff Wavenumber.
- ³Barry Karl Likeness.....Ottawa, Ontario, Canada
Dissertation: Flotation as a Technique for Testing Low-Level Accelerometers in the Earth's Gravitational Field.
- Eli Meller.....Palo Alto
Dissertation: New Developments in the Theoretical Behavior of Initially Imperfect, Axially Compressed Circularly Curved Plates and Both Pure- and Semi-Monocoque Cylindrical Shells.

- John David Powell.....Menlo Park
Dissertation: Control of a Spinning Drag-Free Satellite with an Application of Estimation Theory.
- ²Robert Lawrence Rockwell.....China Lake
Dissertation: Nonlinear Analysis of Pressure- and Shock-Waves in Blood Vessels.
- ²Robert Sugden Rogallo.....Newport News, Virginia
Dissertation: A Trailing-Edge Correction for Subsonic Slender-Wing Theory.
- ¹Susann Jane Novalis Shaw.....Florham Park, New Jersey
Dissertation: The Circular-Disc Viscometer and Related Electrostatic Problems.
- ²John Albert Sorensen.....DeWitt, Iowa
Dissertation: Precision Magnetic Attitude Control of Spinning Spacecraft.
- ¹Stephen Joseph Stahara.....Youngstown, Ohio
Dissertation: Supersonic Flow over an Ogive of Revolution: An Example of a Boundary Layer Under Singular Outer Conditions.
- ²Richard Charles Stroud.....Sunnyvale
Dissertation: Dynamic Response of Rapidly Heated Plate and Shell Elements.
- ¹George Alexander Tsongas.....Garden City, New York
Minor: Physics.
Dissertation: A Study of the Formation of 1.15μ Spectral Line of Neon in a DC Discharge.
- ²Barclay Jamison Tullis.....Palo Alto
Dissertation: The Optical Response of a Laser-Doppler Particle Sensing Instrument in Measurements of High Velocity Particle-Entraining Flows.
- ³William Charles Van Buskirk.....Mayfield, Utah
Dissertation: Experimental and Theoretical Model Studies of Some Dynamic Response Characteristics of the Semicircular Canals.
- Po Kee Wong.....Mountain View
Dissertation: Waves in Viscous Fluids, Elastic Solids and Viscoelastic Materials.

APPLIED MECHANICS

- ¹Devendra Singh Chhabra.....Kanpur, India
Dissertation: Initial Speeds of Elastic-Plastic Boundaries in the Propagation of Plane Pressure-Shear Waves in a Half-Space.
- ³Ronald Ernest Foerster.....St. Paul, Minnesota
Dissertation: Studies of Linear and Nonlinear Dynamical Systems With and Without Time Delay in the Control.
- ³Willi Kortuem.....Frankfurt, Germany
Dissertation: Attitude Estimation and Control of Earth-Pointing Satellites.
- ²Elbert Lynn Marsh.....Philadelphia, Pennsylvania
Dissertation: Three Space Vehicle Attitude Stability Problems.
- ¹Mark Paul Scher.....Silver Spring, Maryland
Dissertation: Alteration of the State of Motion of a Human Being in Free Fall.
- ³Jean Alfred Tennant.....Forest Side, Mauritius
Dissertation: The Dynamic Characteristics of Human Skeletal Muscle Modeled from Surface Stimulation.
- ²Arthur Gates Ware III.....Amherst, Virginia
Dissertation: Impact on Plates on Elastic Foundations.
- ²Robert Joe Wiley.....Poseyville, Indiana
Dissertation: Plane Gridworks and the Cosserat Continuum.
- ²Alexander Scott Williamson.....Edinburgh, Scotland
Dissertation: Tearing Separation of Viscous Fluid Layers Under Surface Tension Membrane Boundaries.

CHEMICAL ENGINEERING

- ²John Harden Beamer.....Islington, Ontario, Canada
Dissertation: Optimization: I. of a Desalination Plant; II. by Contour Tangents; III. for One Dimensional Functions.
- ¹Calvin Arnold Bruce.....Charlotteville, New York
Dissertation: Viscometric Properties of Viscoelastic Fluids.
- ²Robert Harold Caulk.....Pittsburgh, Pennsylvania
Dissertation: Continuum Physical Acoustics.
- ¹Soo Myung Kim.....Seoul, Korea
Dissertation: Control and Design of Partially Controllable Inventory Systems.
- ²Shen Fu Liang.....Taichung, Taiwan
Dissertation: A Study of Two Problems in Thermal Convection: I. Finite Amplitude Convection in Cylindrical Geometries; II. Buoyancy Driven Convection in a Non-Newtonian Fluid Layer.

- ²Gerald Allan Melin.....Minneapolis, Minnesota
Dissertation: Energy Accommodation During the Heterogeneous Recombination of Atoms on Metal Surfaces.
- ¹Gintaras Victor Reklaitis.....Chicago, Illinois
Dissertation: Singularity in Differential Optimization Theory: Differential Algorithm for Posynomial Programs.
- ²Channing Rex Robertson.....Glendale
Dissertation: Low Reynolds Number Shear Flow Past a Rotating Circular Cylinder: Momentum and Heat Transfer.
- ²Merlin Albert Vannice.....Halsey, Nebraska
Dissertation: The Adsorption and Activation of Hydrogen on Platinum.
- Arden Bruce Walters.....Ventura
Minor: Chemistry.
Dissertation: The Adsorption and Copper Promoted Activity of Magnesium Oxide for the Activation of Hydrogen in the Vicinity of 100°K.

CIVIL ENGINEERING

- ²Vishnuprasad Lalmohan Agaskar.....Bombay, India
Dissertation: Automated Design of Tier Buildings.
- ¹Dietrich Rudolf Bergmann.....Monroe, Michigan
Dissertation: Sensitivity of Passenger Railway System Performance to Technical and Operational Innovation.
- ²Alvin Bruce Bishop.....Logan, Utah
Dissertation: Socio-Economic and Community Factors in Planning Urban Freeways.
- ¹Walter Houston Bray.....Central Bridge, New York
Dissertation: Diffusion of Water in Hardened Portland Cement Paste.
- ³Gustavo Camargo-Mora.....Merida, Venezuela
Dissertation: An Analytical Study of Three-Dimensional Frames with Circular Cross-Beams.
- ²Norman Allen Cyr.....Redwood City
Dissertation: Triangular Finite Element for Cylindrical Shells.
- ³Oscar Eugene Dickason.....Sacramento
Dissertation: A Study of Gases in the Zone of Aeration.
- ²David Alexander Evans.....Queanbeyan, Australia
Dissertation: Man/Computer Augmentation Systems for Qualitative Planning.
- ²John Franklin Ferguson.....Stockton
Dissertation: The Precipitation of Calcium Phosphates from Fresh Waters and Waste Waters.
- Erhardt John Finnemore.....Cuffley, England
Minor: Geology.
Dissertation: Moisture Movement Above a Varying Water Table.
- ³Delbert Dale Franz.....Walton, Kansas
Dissertation: Hourly Rainfall Synthesis for a Network of Stations.
- ¹Masaru Hoshiya.....Hiratsuka, Japan
Dissertation: Dynamic and Eigenvalue Analysis of Stochastic Structural Systems.
- ³Robert Louis Kidder.....Los Altos
Dissertation: Quadrilateral Finite Element for Plane Stress and Plane Strain.
- ³Charles Albert Kohlhaas.....Albuquerque, New Mexico
Dissertation: The Optimization of Storm Holding Tanks: A Problem of Water Pollution Control.
- ²Alan Mark Lumb.....Brentwood, Missouri
Dissertation: Hydrologic Effects of Precipitation Augmentation.
- Thomas Arthur Manning, Jr.....Baton Rouge, Louisiana
Dissertation: The Analysis of Tier Buildings with Shear Walls.
- ³Sidney Mindess.....Winnipeg, Manitoba, Canada
Dissertation: The Relationship Between the Strength and Microstructure of Autoclaved Calcium Silicate Materials.
- Kristinn Steven Ott.....Leysin, Switzerland
Dissertation: A Markov Chain Approach to the Problem of Failure Due to Random Vibrations.
- ³Gerard Charles Pardoen.....Wantagh, New York
Dissertation: Static and Dynamic Buckling of Thin-Walled Columns Using Finite Elements.
- ¹Erik Johan Sellevold.....Oslo, Norway
Dissertation: Anelastic Behavior of Hardened Portland Cement Paste.

- ²Kennon Dwaine Vaudrey.....Brookings, South Dakota
Dissertation: Dynamic Stability of Cylindrical Shells and Folded Plates Subjected to Stochastic Excitations.
- David Mitsuo Yoshida.....Palo Alto
Dissertation: Dynamic Response of Beams and Plates to Moving Loads.

ELECTRICAL ENGINEERING

- ²Robert Chancellor Addison, Jr.Norfolk, Virginia
Dissertation: A Ray Theory Analysis of Magnetoelastic Wave Propagation in Ferrimagnetic Media.
- ²Steve Gary Bandy.....Salem, Oregon
Dissertation: Design, Fabrication, and Evaluation of a Silicon Junction Field-Effect Photodetector.
- ³Christopher Warren Barnes.....Menlo Park
Dissertation: The Computer Simulation of a Spherically Symmetric Plasma.
- James Robert Barnum.....Fresno
Dissertation: The Effect of Polarization Rotation on the Amplitude of Ionospherically-Propagated Sea Backscatter.
- ²Mark Brown Barron.....Anderson, Indiana
Dissertation: Computer Aided Analysis of Insulated Gate Field-Effect Transistors.
- ¹Richard Alan Baugh.....Palo Alto
Dissertation: High-Efficiency Volume Holography.
- Yuan-chung Chin.....Taiwan
Dissertation: A Theoretical Study of Polarization Transfer and Polarization Measurement of Type III Radiation.
- ¹Soon Dal Choi.....Taegu, Korea
Dissertation: A Surface Charge Induction Motor.
- Frederick Wingfield Clegg.....Menlo Park
Minor: Computer Science.
Dissertation: Algebraic Properties of Faults in Logic Networks.
- ¹Edward Kirkham Conklin.....Farmington, Connecticut
Dissertation: Anisotropy and Inhomogeneity in the Cosmic Background Radiation.
- Lewis Arthur Davidson.....Belmont, Massachusetts
Dissertation: Use of High Energy Ion Beams for Crystal Analysis of Ion Implanted Diamond.
- Patrick M. R. Dewilde.....Korbeek-Lo, Belgium
Dissertation: Cascade Scattering Matrix Synthesis.
- John Guiry Endriz.....La Grange, Illinois
Dissertation: Optical and Photoemission Studies of Volume States and Surface Oscillations in Metals.
- Philip Anthony Fialer.....Los Altos
Dissertation: Irregularities in the Quiet Ionosphere and Their Effect on Propagation.
- ²Marc Ilegems.....Antwerp, Belgium
Dissertation: Liquid Epitaxy and Physical Properties of $Ga_{1-x}Al_xAs$.
- ¹Richard Yutaka Koyama.....Seattle, Washington
Dissertation: The Electronic Structure of Indium and Other Metals: Photoemission and Optical Studies.
- ³Dirk Jan Kuizenga.....Edenvale, South Africa
Dissertation: Internal Modulation of the Nd:YAG Laser.
- Roland Claude Joseph Le Bail.....Carnac, France
Dissertation: Plasma Computer Simulation in Cylindrical Geometry with Azimuthal Symmetry.
- ³Yet-zen Liu.....Taipei, Taiwan
Dissertation: Studies of the Cleaning of GaAs Surfaces and of the Photoemission from Bulk GaAs and GaAs Thin Films on Sapphire.
- Albert Paul Malvino.....Redwood City
Dissertation: Real-Time Digital Function Generation.
- ²Gail Austin Massey.....Half Moon Bay
Dissertation: A Fresnel Drag Laser Gyroscope.
- ¹Edward Raymond Meyer.....Mountain View
Dissertation: Error Bounds for Systems Models Using Fixed Point Theory.
- ³Roger Leon Minear.....Stanford
Dissertation: Diffusion Enhancement in Germanium by Light Ion Implantation.
- John LeRoy Moschner.....Webster Groves, Missouri
Dissertation: Adaptive Filtering with Clipped Input Data.

- ³Daniel George Nelson.....Los Gatos
Dissertation: Radiation-Enhanced Diffusion of Boron in Silicon.
- ²José Carlos Pomalaza-Díaz.....Loreto, Peru
Dissertation: Remote Sensing of the Atmosphere by Occultation Satellites.
- Charles Henry Rogers.....Orlando, Florida
Dissertation: The Importance of Vibration Frequency in Tactile Pattern Perception.
- ²Roger Kenneth Route.....Detroit, Michigan
Dissertation: Sound Wave Interactions in InSb.
- ¹Phillip James Salisbury.....Hillsdale, Michigan
Dissertation: A Monolithic Image Sensor for a Reading Aid for the Blind.
- ²Rege Romeu Scarabucci.....São José dos Campos, Brazil
Dissertation: Interpretation of VLF Signals Observed on the OGO-4 Satellite.
- ²Crawford Warick Scott.....Gatesville, Texas
Dissertation: Signal Processing for Parameter Determination with Linear Arrays.
- ²David Henry Seib.....Exeter
Dissertation: Photoemission and Optical Studies of Copper-Nickel Alloys.
- ²Thomas William Sigmon.....Fort Worth, Texas
Dissertation: Measurements of Proton Radiation Damage and Carrier Diffusivities in Silicon Through Observations of the Drift of Electron-Beam-Induced Carriers.
- ²Alvy Ray Smith III.....Clovis, New Mexico
Dissertation: Cellular Automata Theory.
- ³Jerome Frost Smith, Jr.San Diego
Dissertation: The Adaptive Linear Combiner Classifier.
- ³Wayne Lawrence Snyder.....Easton, Pennsylvania
Dissertation: Preparation and Properties of GaAs-Ga_{1-x}Al_xAs Heterojunctions.
- Irwin Edward Sobel.....Forest Hills, New York
Dissertation: Camera Models and Machine Perception.
- ³James Lien-chin Su.....Taipei, Taiwan
Dissertation: Transport Phenomena in Gallium Arsenide and Silicon.
- Lawrence Earl Sweeney, Jr.Bellevue, Washington
Dissertation: Spatial Properties of Ionospheric Radio Propagation as Determined with Half-Degree Azimuthal Resolution.
- ²Jens Aage Tellefsen, Jr.Oslo, Norway
Dissertation: An Experimental Study of an Infrared Modulator and Image Converter Tube.
- ²Richard William Wallace.....Jefferson, Iowa
Dissertation: Nd³⁺: YAG Pump for Nonlinear Optical Experiments.
- ²Fernando Walter.....São Paulo, Brazil
Dissertation: Nonducted VLF Propagation in the Magnetosphere.
- Nie-Chin Thomas Wang.....Taipei, Taiwan
Dissertation: VLF Input Impedance Characteristics of an Electric Antenna in a Magnetoplasma.
- ³Dennis Lee Wilson.....Palo Alto
Dissertation: Nearest Neighbor Rules in Pattern Recognition.
- ²Joe Michael Yarborough.....Santa Clara
Dissertation: Tunable Stimulated Optical Emission from Polariton Modes.
- ²James Forrest Young.....Houston, Texas
Dissertation: Visible CW Optical Parametric Oscillators.

ENGINEERING-ECONOMIC SYSTEMS

- ³Otto Ruprecht Bekman.....São Paulo, Brazil
Dissertation: A Decision Analysis Approach to Two-Person Games.
- Dean Weldon Boyd.....Shreveport, Louisiana
Dissertation: A Methodology for Analyzing Decision Problems Involving Complex Preference Assessments.
- Edward George Cazalet.....Vancouver, B.C., Canada
Dissertation: Decomposition of Complex Decision Problems with Applications to Electrical Power System Planning.
- ¹Arnold Bruce Pollard.....Forest Hills, New York
Dissertation: A Normative Model for Joint Time/Risk Preference Decision Problems.
- ²Adam Shefi.....Jerusalem, Israel
Dissertation: Reduction of Linear Inequality Constraints and Determination of All Feasible Extreme Points.

INDUSTRIAL ENGINEERING

- ¹William Lamar Coggschall.....Ithaca, New York
Dissertation: Optimal Control Schemes for Strategic Materials.

- ²Allen Seth Ginsberg.....Long Beach, New York
Dissertation: Decision Analysis in Clinical Patient Management with an Application to the Pleural Effusion Problem.
- ¹Robert William Graves.....Sharon, Pennsylvania
Dissertation: Decision Tree Structure: Implications for Information Retrieval.
- ¹Patrice Charles Henri Henault.....Paris, France
Dissertation: On the Application of Dynamic Programming to Long-Range Planning with an Uncertain Future.
- ¹Jean-Claude Kaltenbach.....Paris, France
Dissertation: Problems Relating to the Optimal Planning of Network Capacities.
- ³Jean-Paul Richard.....Druillat, France
Dissertation: The Continuous Process—Job Shop Scheduling Problem.
- ³Paul Lung Tuan.....Palo Alto
Dissertation: A System for On-Line Network Picture Processing.

MATERIALS SCIENCE

- Carl Norman Ahlquist.....Corona del Mar
Dissertation: A Phenomenological Description of High Temperature Deformation in Terms of Measured Average Internal Stresses.
- Lloyd Douglas Clark.....Ventura
Dissertation: A Study of Ammonium Ion Diffusion in Ammonium Tungsten Bronze Using Both Pulsed and Steady-State Nuclear Magnetic Resonance Techniques.
- ¹José Roberto Costa Guimarães.....Rio de Janeiro, Brazil
Dissertation: The Effects of Plastic Deformation of Austenite on the Martensitic Transformation in Fe-Ni-C Alloys.
- ²Fathi Aref Ibrahim Darwish.....Cairo, U.A.R.
Dissertation: The Effect of Temperature and Fiber Orientation on the Strength and Deformation Characteristics of Fiber Composites.
- Rogelio Gasca-Neri.....Mexico City, D.F.
Dissertation: A Theoretical Study of Internal Stresses in Solids and Their Relation to High Temperature Creep Phenomena.
- ¹James George Harper.....Dallas, Texas
Dissertation: Photothermoelectric Effects in Semiconductors.
- James Raymond Hauber.....Greendale, Wisconsin
Dissertation: The Influence of Grain Size and Heat Treatment on the High Temperature Mechanical Behavior of Ni-Cu Solid Solution Alloys.
- ²Ho Bin Im.....Seoul, Korea
Dissertation: Photoelectronic Properties of Traps in CdS and CdS-CdSe Crystals.
- ²William Robert Johnson.....Palo Alto
Dissertation: A Study of High Temperature Creep of Nickel-Tungsten Solid Solutions.
- Ted LeRoy Larsen.....Palo Alto
Dissertation: An Investigation of Electronic Defects in ZnTe.
- Alexis Plato Malozemoff.....Greenwich, Connecticut
Dissertation: The Optical Spectrum and Magnetic Properties of Thulium Orthoferite.
- ²Lewis Donald Miller.....Belmont
Dissertation: Luminescence, Trapping and F Centers in Lithium Fluoride Crystals.
- ¹Eugene Charles Muchleisen.....Hornell, New York
Dissertation: The Role of Structure in Newtonian Deformation of Metals.
- ²Kazumi Nishioka.....Takamatsu, Japan
Dissertation: Statistical Mechanical Studies of Homogeneous Nucleation Theory.
- ¹James Stuart Perrin.....Columbus, Ohio
Dissertation: Deformation-Enhanced Diffusion in Metals as Assessed by Elevated Temperature Creep Experiments.
- ¹Harry James Saxton.....Northridge
Dissertation: The Influence of Cooling Rate and Yield Strength upon the Mechanical Behavior of Brazed Joints.
- Anton John West, Jr.....Bethel Park, Pennsylvania
Dissertation: The Deformation and Failure of Thin Brazed Joints.

MECHANICAL ENGINEERING

- ¹Didier François Biron.....Mas-Grenier, France
Minor: Mathematics.
Dissertation: Non-Linear Transport of Electrons and Ions in a Plasma Diode.
- ³Robert Thomas Brown.....Sioux City, Iowa
Dissertation: Electron Temperature and Number Density Measurements in a Nonequilibrium Plasma Boundary Layer.
- ³Gregg Woodford Dixon.....Shaker Heights, Ohio
Dissertation: The Measurement of Thermal Neutron Spectra in Heterogeneous Lattices by Foil Activation.

- ¹Garrett Aquila Garrettson.....Gilroy
 Minor: Mathematics.
 Dissertation: Green's Functions for Multidimensional Neutron Transport in a Slab.
- Abul Khair Muhammad Fazle Hussain.....Dacca, Pakistan
 Dissertation: The Mechanics of a Perturbation Wave in Turbulent Shear Flow.
- ²Michael Edwin Kahn.....El Paso, Texas
 Dissertation: The Near-Minimum-Time Control of Open-Loop Articulated Kinematic Chains.
- David William Kearney.....Elmhurst, Illinois
 Dissertation: The Turbulent Boundary Layer: Experimental Heat Transfer with Strong Favorable Pressure Gradients and Blowing.
- William Frank Lapson.....Cupertino
 Dissertation: Mechanical and Thermal Considerations of an Unmanned Geophysical Observatory.
- Robert Jackson Loyd.....Whittier
 Dissertation: The Turbulent Boundary Layer on a Porous Plate: An Experimental Study of the Fluid Dynamics with Strong Favorable Pressure Gradients and Blowing.
- Oden James McMillan.....Washington, D.C.
 Dissertation: Performance of Low-Aspect-Ratio Diffusers with Fully-Developed Turbulent Inlet Flows.
- ¹Edward Stephen Rubin.....New York, New York
 Dissertation: Effects of Electrode Size on the Performance of a Combustion-Driven MHD Generator.
- ¹Kenneth John Waldron.....Sydney, Australia
 Dissertation: The Mobility of Linkages.
- ²Robert Needy Whitesel.....Waynesboro, Virginia
 Dissertation: Activation Measurements of the Doppler Effect in Uranium-238 and Thorium-232 as a Function of Surface Area-to-Mass Ratio.
- ³Richard William Zeren.....Towson, Maryland
 Dissertation: Thermal Instabilities in Two-Fluid Horizontal Layers.

OPERATIONS RESEARCH

- ²James Harold Bigelow.....Berkeley
 Minor: Physiology.
 Dissertation: The Chemical Equilibrium Problem: A Special Case of Nonlinear Programming.
- Zachary Fenton Lansdowne.....Carmel Valley
 Dissertation: The Theory and Applications of Generalized Linear Control Processes.
- ¹James Terry McGill.....Stayton, Oregon
 Dissertation: Optimal Control of Queueing Systems with Variable Number of Exponential Servers.
- ³Daniel Warner North.....Los Altos Hills
 Dissertation: An Invariance Approach to the Probabilistic Encoding of Information.
- José Riverola García.....Barcelona, Spain
 Dissertation: Step Size Problems.
- John Scott Rogers.....Halifax, Nova Scotia, Canada
 Dissertation: A Dynamic Model for Planning Capacity Expansion: An Application to Plant Reliability in Electric Power Systems.
- ¹Tapas Kumar Sarkar.....Calcutta, India
 Dissertation: Some Lower Bounds of Reliability.

COMMITTEE ON HYDROLOGY

JOSEPH B. FRANZINI, *Associate Chairman of
 Civil Engineering*

Doctor of Philosophy

HYDROLOGY

- ²George Milton Hornberger.....Mt. Carmel, Pennsylvania
 Dissertation: Numerical Studies of Composite Soil-Moisture Ground-Water Systems.
- ²Medardo Molina.....Aucara, Peru
 Dissertation: Extension of Rainfall Records by Inter-Station Correlation.

SCHOOL OF HUMANITIES AND SCIENCES

ALBERT H. HASTORF, *Dean**Master of Arts and Master of Science*

ANTHROPOLOGY

¹ Susan Whitin Almy.....	Etna, New Hampshire
¹ Gordon Appleby.....	Hardwick, Vermont
Jeffrey Aron.....	New York, New York
² Kenneth Robert Ayer.....	San Diego
³ Jacob Maury Bilmes.....	Roslyn, New York
¹ Peter Geoffrey Bourne.....	Portola Valley
Gerald Lee Casimere.....	Berkeley
¹ Peaslee Frederick DuMont.....	Piedmont
² Julia Day Howell.....	Maplewood, New Jersey
² Elizabeth Hadley McMillan Hutchinson.....	Cleveland, Ohio
Richard Laurance Kimball.....	Los Gatos
² Paul Joseph Maloney.....	Batavia, New York
¹ Ann Hillyer Rosenthal.....	Muscatine, Iowa
¹ Judith Vivian Strauch.....	Berkeley
¹ James Henry Tenzel.....	Palo Alto
¹ Edwin Fuller Torrey.....	Clinton, New York
Fredric Joseph Van Rheenen.....	Portola Valley
² Deborah Martha Winslow.....	Pleasanton

APPLIED PHYSICS

¹ John Anthony Benda.....	Hartford, Connecticut
¹ Kuen Chow.....	Taipei, Taiwan
Geert Cornelis Dijkhuis.....	Delft, Netherlands
Scott Grant.....	New York, New York
¹ Helge Kildal.....	Oslo, Norway
Keng-san Liang.....	Tainan, Taiwan
John Wesley McKenzie.....	Duluth, Minnesota
³ Burton Anthony Richardson.....	Chicago, Illinois
¹ Stephen Jay Roth.....	New York, New York
² Richard Lloyd Ruth.....	Perkasie, Pennsylvania
¹ Robert Edward Schwall.....	San Antonio, Texas
³ Spencer Alan Shaw.....	Washington, D.C.
James Lee Wurtz.....	Paducah, Kentucky

ART

Howard Reed Foote.....	Mill Valley
Marian Ashby Johnson.....	Provo, Utah
³ Kurt Thomas Luckner.....	Stafford Springs, Connecticut
³ Salvatore Jack Magri.....	Sunnyvale
Gilbert Roland Precivale.....	Lagunitas
Joe Allen Price.....	Decatur, Alabama
² Louisa McDonald Read.....	Las Vegas, Nevada
¹ Arnold Edward Shives.....	Vancouver, B.C., Canada
¹ Robert Allan Sobieszek.....	Berwyn, Illinois
Elizabeth Worley Stolurow.....	Yuba City
Gary Carl Sullivan.....	New York, New York
Richard James Tuttle.....	Atherton
John Kirk Train Varnedoe.....	Savannah, Georgia

BIOLOGICAL SCIENCES

- Ronald Lewis Calabrese.....Peekskill, New York
¹Peter Mark Dolinger.....Valhalla
²Howard Joseph Edenberg.....Flushing, New York
³Charles Richard Gibbs.....New Shrewsbury, New Jersey
³Paul Grobstein.....Stanford
¹Annette Louise Hathaway.....Binghamton, New York
¹Nathan Read Howe.....Orinda
²Donald James Pollock.....Menlo Park
¹Robert Spivack.....New York, New York
¹Stephen Nicholas Turitzin.....Princeton, New Jersey
¹Barbara Ann Clar Turner.....Palo Alto
Ch rie Lalaine Rivers Wetzel.....Fremont

CHEMISTRY

- ³Clifford Jacob Ahola.....Livonia, Michigan
Karen Sue Heckmann.....Independence, Missouri
¹Raymond William Horn.....Brookings, South Dakota
¹Leonard Mark Itzkowitz.....New York, New York
¹Charles Robert Matthews.....Rochester, Minnesota
Paul Robert Ryan.....Southold, New York
²Arthur Charles Scott.....Shaker Heights, Ohio
³Leon Oscar Winstrom, Jr.East Aurora, New York

CHINESE

- ¹Jeffrey Kenneth Riegel.....Miami, Florida
¹Tamotsu Takase.....Tokyo, Japan

CLASSICS

- ³Ferris Spencer Edwards.....New York, New York
¹Robert Eric Eisner.....Jersey City, New Jersey
Douglas Worth Olcott, Jr.Albany, New York
Marianina C. Demetri Olcott.....Garden City, New York

COMMUNICATION

- ²Thomas Lee Adams.....Chatsworth
Lewis Marshall Andrews.....Irvington, New York
¹David Gerard Brill.....New York, New York
²Barbara Ann Bullock.....Monterey
¹Carol Margaret Burns.....Olympia, Washington
²Suzanne Barding Byrne.....Atlanta, Georgia
Constancio Aguirre de Castro.....Caracas, Venezuela
Arthur Michael Eisenson.....Stanford
¹Richard Wallace Enersen.....San Francisco
¹David Espar.....Detroit, Michigan
Sharon Lynne Gillette Espar.....San Francisco
Harry Gilbert Fuller.....Fairfax
Kathleen Hellstrom Gaisford.....Salt Lake City, Utah
²Jean Charles Michel Guit .....Montreal, Quebec, Canada
²Lee Howard Hess.....Glencoe, Illinois
Sarah Hardin Hines.....Falls Church, Virginia
³Robert Charles Hornik.....Hewlett, New York
²Thomas Phillips Johnson, Jr.Poultney, Vermont

¹ Stephen Daniel Landers.....	Grosse Pointe Farms, Michigan
³ Susan Lederer.....	Washington, D.C.
Michael Gary Little.....	Washington, Pennsylvania
² Ronald Dee Mallett.....	Denver, Colorado
Adolyn Acton Myers.....	New Orleans, Louisiana
Regina Vivien Nadelson.....	New York, New York
¹ Bernadette Anita Nelson.....	Compton
¹ David Blair Noland, Jr.	Indianapolis, Indiana
³ Richard William Scheffer.....	Los Angeles
¹ Lawrence Henry Schwartz.....	Englewood, New Jersey
William Charles Siska.....	Chicago, Illinois
Peter Lawrence Spain.....	Danbury, Connecticut
Mark Starr.....	Newton Center, Massachusetts
³ Judith Louise Strasser.....	Pittsburgh, Pennsylvania
² Gene Ulansky.....	Yonkers, New York
Michael Alan Welber.....	South Bend, Indiana

COMPUTER SCIENCE

² David Neil Berg.....	Palo Alto
Richard Peirce Brent.....	Melbourne, Australia
¹ Robert James Carpenter.....	Arlington, Virginia
² Isu Fang.....	São Paulo, Brazil
¹ Karen Ingrid Erickson Huff.....	Palo Alto
¹ Donald Walter Kosy.....	Detroit, Michigan
Stephen Alastair Ness.....	Minneapolis, Minnesota
¹ Thomas Herman Pinkerton.....	Olivehurst
Alain Frederic Pollard.....	Paris, France
¹ Arnold Jay Sisk.....	Northridge
Margaret Lynn Sprague.....	White Plains, New York
Robert Fletcher Sproull.....	Rochester, New York
³ Sydney Morris Steele.....	Seattle, Washington
¹ David Curtis Van Voorhis.....	Shreveport, Louisiana
¹ John Edward Zolnowsky.....	Oral, South Dakota

EAST ASIAN STUDIES

³ Jean Lynnae Richter Evans.....	Sacramento
Susan Hamant Hou.....	Dover, Massachusetts
Lynn Bruce McFarland.....	Kentfield
Robert Allan Phillips III.....	Taipei, Taiwan
³ William Venable Rapp.....	New York, New York

ECONOMICS

² John Howard Beebe.....	Palo Alto
² Patricia Elaine DeCoster.....	Canton, Missouri
³ Robert Irwin Kutscher.....	Carmel
³ Francisco Alejandro Juan Mezzadri.....	Buenos Aires, Argentina
James Hilliard Perry, Jr.	Greensboro, North Carolina
³ Jonathan James Pincus.....	Brisbane, Australia
¹ Michael Glenthorne Porter.....	Adelaide, South Australia
² Brian John Powell.....	Toronto, Ontario, Canada
Ian Gayford Sharpe.....	Sydney, Australia
² Frank Simon.....	Calgary, Alberta, Canada
² Robert Stewart Smith.....	Palo Alto
¹ Douglas Graham Thompson, Jr.	Hollywood

- ²Kenneth Lloyd Thompson.....Waco, Texas
³David Max Weinstein.....Seattle, Washington
¹Gerald Allen Wright.....Seattle, Washington

ENGLISH

- Michael Ames.....Austin, Texas
 Ann McDoel Lawson Bilodeau.....Riverside
¹Jean Wetherbee Bowers.....Brookline, Massachusetts
 Constance Dorothy Baldwin Denney.....Ithaca, New York
³Ellen Eve Frank.....Los Angeles
 Norman James Fry.....Upland
 Eren Lynn H. Givan.....La Jolla
²Linda Susan Graf.....Palo Alto
²Diane Morgan Scharfeld Isaacs.....Washington, D.C.
³Jule Suzanne Kaufman.....Indianapolis, Indiana
³Ann Reynolds Helgeson Kiewel.....Chappaqua, New York
³Alzada Jean Knickerbocker.....Knoxville, Tennessee
¹John Alexander McClure.....Newington, Connecticut
 Nancy Elizabeth Dawson Mann.....Mountain View
¹Carolyn Ruth Anderson Maxim.....Sunnyvale
 Mark Robert Moskowitz.....Philadelphia, Pennsylvania
 Thomas Lawrence Noronha.....Calcutta, India
²Anne Marie Shimek Paye.....Menlo Park
¹Lowry Cheng-Wu Pei.....St. Louis, Missouri
 Charles Henry Rammelkamp.....Cleveland Heights, Ohio
²Thomas Ned Rendall.....Boulder, Colorado
²Dianne Esther Sigler.....Los Angeles
 Patricia Ann Alden Skenazy.....Palo Alto
²Charles Hansen Toll III.....Concord, New Hampshire
 Lucia Henning Heldt Werner.....Miami, Florida

FRENCH

- ¹Jane Kyle Brumage.....Bellevue, Washington
³Gérard Marie Burger.....Briey, France
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 Louise Pinard Gill.....Montreal, Quebec, Canada
 Eileen Anne MacIndoe Tanner.....Palo Alto

GERMAN

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¹Marie Sebastian Blattmann.....Fort Smith, Arkansas
²Judith Lynn Buddemeier Bleicher.....Campbell
³Herbert Hans Boswau.....Los Altos Hills
¹Arlene Joyce Epp.....Henderson, Nebraska
¹Robert Willard Foley.....Menlo Park
¹Herbert Sophie Huber.....Nazareth, Texas
 Peter Detlef Juhl.....Fort Lauderdale, Florida
 Andrea Gail Mattson.....Salem, Massachusetts
 Marikka Elizabeth Rypa.....South Bend, Indiana
 Elena Cremelle Schafer.....Sacramento
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¹Michael Dale Thacker.....Los Altos Hills
¹Kenneth Julius Trainor.....Baileys Harbor, Wisconsin

HISTORY

- Lawrence James Baack.....Mountain View
 Cissie Rafferty Bonini.....Stanford

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Caroline Jean A. Ciancutti.	San Francisco
David Byers Danbom.	Denver, Colorado
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² Carl John DiFronzo.	Malden, Massachusetts
² Thomas Allan Emmert.	St. Cloud, Minnesota
David Christian Evans.	Bakersfield
² Patrick Francis Flannery.	Mountain View
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JAPANESE

Susan Victoria Chambers.	Tucson, Arizona
¹ David Christian Evans.	Bakersfield
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LATIN AMERICAN STUDIES

Vicki Diane Carter.	West Upton, Massachusetts
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Linda Julie Anderson Moore.	La Crescenta
José-Manuel Navarro.	Philadelphia, Pennsylvania
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LINGUISTICS

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³Lucille Maude Cook Nanney.....Palo Alto
³Gayle Holley Partmann.....Larkspur

MATHEMATICS

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³Fred Gama-Lobo.....Chicago, Illinois
Jerrold Wayne Grossman.....Arlington, Virginia
James William Hoover.....Austintown, Ohio
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Donald Keith Kreckler.....Norristown, Pennsylvania
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Joan Marie Sander.....Philadelphia, Pennsylvania
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Ronald Sverdlove.....New York, New York
¹Duncan Campbell Thomas.....Whitehorse, Yukon, Canada
³Gary Gene Venter.....Millbrae
¹Leonard David Weisberg.....Los Angeles
³Dennis Joel Wildfogel.....New York, New York

MUSIC

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¹Winifred M. B. Waring Conley.....Princeton, New Jersey
William John Erlendson.....San Jose
Paul Lindley Furnas.....San Anselmo
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Margaret Mary Rosso.....Effingham, Illinois
⁴Julie Rebecca Steinberg.....East Setauket, New York
Samuel John Swartz.....Portland, Oregon

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PHYSICS

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Jerry Ronald Hall.....Bayard, Iowa
Kenneth Cullen Harvey.....Shreveport, Louisiana

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Harriss Thornton King.....	Ames, Iowa
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Terrence Wynn Martin.....	Cincinnati, Ohio
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Peter Dragan Pesic.....	Long Beach
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Robert Steven Savit.....	Skokie, Illinois
Issa Salim Shahin.....	Jerusalem, Jordan
David Irwin Shalloway.....	North Miami Beach, Florida
¹ Jonathan Edin Silver.....	Rye, New York
¹ Jack William Simpson, Jr.	Coeur d'Alene, Idaho
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¹ Roger Alan Smith.....	Claremont
Laurance Jay Suter.....	Seaford, New York
Robert Clark Taber.....	Midland, Michigan
² Sou-Tien Wang.....	Yun-Lin Hsien, Taiwan
Douglas Michael Whitmore.....	Wilmette, Illinois

POLITICAL SCIENCE

Howard Robert Blum.....	New York, New York
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Ronald Stanley Chalmers.....	Edmonton, Alberta, Canada
William James Cook.....	Corte Madera
Henry Avery Dietz.....	Palo Alto
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Roger Gibbins.....	Prince George, B.C., Canada
Richard Lee Johnson.....	Golden Valley, Minnesota
Lorraine Mary McDonnell.....	Daly City
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Jean Louise Harrison Ograd.....	Menlo Park
John Robert Oneal.....	Lawton, Oklahoma
Stephen Adeo Quick.....	Washington, D.C.
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Wanderley Guilherme dos Santos.....	Guanabara, Brazil
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Sally Allaire Soth.....	Seattle, Washington

PSYCHOLOGY

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Anna Elizabeth Doyle.....	Toronto, Ontario, Canada
Caryl Margot Halper.....	New York, New York
¹ Marcel Ann Just.....	Montreal, Quebec, Canada
¹ Joan Ruth Paskewitz Olson.....	St. Paul, Minnesota

RUSSIAN

Leon Luis Eymil.....	Los Altos
Jeanne Wallick Fennell.....	Sioux City, Iowa
Vitalia Gurvis.....	Los Angeles
Michael Allen Kass.....	Westfield, New Jersey
Susan Branson Lincoln.....	Upper Montclair, New Jersey
Harold Klassel Schefski.....	San Carlos
Bosko S. Vukcevic.....	San Jose

SOCIOLOGY

Israel Adler.....	Jerusalem, Israel
³ Steven Earl Beaver.....	Fort Wayne, Indiana
Gregory Thomas Black.....	River Grove, Illinois
Michael Peter Carroll.....	San Francisco
³ Jacques Jean Delacroix.....	Paris, France
³ Joel Edward Dimsdale.....	Sioux City, Iowa
Connie Joann Evashwick.....	Long Beach
Gordon Bruce Ferguson.....	Albuquerque, New Mexico
Stuart K. Geisinger.....	New York, New York
⁸ Louise Anne Salmon Graham.....	St. Louis, Missouri
William Eliot Hurwitz.....	Boston, Massachusetts
¹ Frederic William Ilfeld, Jr.....	Beverly Hills
Daika Jibrell Jama.....	Berbera, Somalia
¹ Joan Elizabeth Kiker.....	Gainesville, Florida
Gordon Walcott Knight.....	Shrewsbury, Massachusetts
² Andrew John Kolstad.....	Colorado Springs, Colorado
Thomas Joseph Logothetti.....	El Monte
Leonard Louis Magnani.....	Seaford, New York
Karen Anne Miller.....	Los Altos
Robert Gene Walker.....	Marshall, Texas

SPANISH

² Audrey Joan Felt.....	Fairfax, Virginia
Patricia Lea Jaeger.....	Orland Park, Illinois
¹ Sharon Carol Philbrick.....	Atherton
¹ Merle JoAnn Thompson.....	Homewood, Illinois

SPEECH AND DRAMA

Patrick John Culbertson.....	LaVerne
Pauline Elizabeth Peotter.....	Bend, Oregon

STATISTICS

Mary Katherine Zakariasen Bachman.....	Minneapolis, Minnesota
Joseph John Chmiel.....	Dayton, Ohio
Karl Albert Drexhage.....	San Jose
Bibiano Jose Figueroa.....	Cumana, Venezuela
¹ Marjorie Harue Fuji.....	Eleele, Hawaii
¹ Virginia Maye Deimel Gallagher.....	Los Altos
William Edward Geeslin.....	Brady, Texas
¹ Marilyn Louise Cox Harshman.....	Los Altos
Nancy Lee Hassig.....	Royal Oak, Michigan
² Pamela Chadil Hemphill.....	Dallas, Texas
Holly Dorene McKerral Hollingshead.....	Laramie, Wyoming
² Li Hwan Hwang.....	Singapore
Vincent Thomas Lauricella, Jr.....	Sunnyvale
Joseph Edward McGuigan II.....	Santa Barbara
¹ Joseph Valerian Mayega.....	Kampala, Uganda
Joseph Offir.....	Stanford
James Arnold Paulson.....	Stanford

Stanley Roy Pliska	
³ Martin Lee Puterman	New York, New York
¹ Charles David Sternberg	Bridgeport, New York
Benjamin Emil Suta	Sunburst, Montana
¹ Leslie Hanover Tivers	Memphis, Tennessee
² Ching-Ling Tseng	Hongchow, China
Priya Josephine Wickramaratne	Colombo, Ceylon

Master of Architecture

ARCHITECTURE

Likou David Chao	Taipei, Taiwan
Leon Monroe Hartvickson	Turlock
Chu Kwong Ho	Hong Kong
Nopporn Poocharoen	Lampang, Thailand
² Robert Lewis Walker, Jr.	Columbus, Ohio

Master of Fine Arts

SPEECH AND DRAMA

¹ Donald Thomas Cate	Pawtucket, Rhode Island
Billy Joe Frankfather	Kermit, Texas
³ Douglas Allen Johnson	Saratoga
Joseph Gerald Medalis	Shenandoah, Pennsylvania
E. Gene Parseghian	Demarest, New Jersey
John Herbert Wright	Vancouver, B.C., Canada

Doctor of Musical Arts

MUSIC

Charles Allen Illick	Santa Paula
³ Norman Lloyd Owen	Seattle, Washington
¹ Catherine Parsons Smith	Reno, Nevada

Doctor of Philosophy

ANTHROPOLOGY

Hugh Gladwin	Irvine
Dissertation: Decision Making in the Cape Coast (Fante) Fishing and Fish Marketing System.	
² David Brian Kronenfeld	Hendersonville, North Carolina
Dissertation: The Relationship Between Kinship Categories and Behavior Among the Fanti.	
² Frank Joseph Mahony	White Plains, New York
Dissertation: A Trukese Theory of Medicine.	
¹ Sara Beth Nerlove	Chicago, Illinois
Dissertation: Trait Dispositions and Situational Determinants of Behavior Among Gusii Children of Southwestern Kenya.	

- ³John Gibbs Paddock.....Encinitas
Dissertation: Oaxaca in Ancient Mesoamerica.
- ¹Stuart Mark Plattner.....Palo Alto
Dissertation: Peddlers, Figs, and Profits: Itinerant Trading in Southeast Mexico.
- ¹Eric Prokosch.....Old Greenwich, Connecticut
Dissertation: Government Among Indians in the Chiapas Highlands.

APPLIED PHYSICS

- ¹Robert Daniel Burn, Jr.Westport, Connecticut
Dissertation: Computer Studies of Planar Plasma Configurations.
- ¹Dick Mei Chang.....Hong Kong
Dissertation: Measurement of the Negative Differential Mobility in Gallium Arsenide and Germanium.
- Thomas Herman DiStefano.....Hershey, Pennsylvania
Minor: Electrical Engineering.
Dissertation: Photoemission and Optical Studies of Ionic Insulators.
- Henry Michael Gerard.....Far Rockaway, New York
Dissertation: Piezoelectric Surface Wave Transducers, Delay Lines and Couplers.
- John Quayle Howell.....Palo Alto
Dissertation: Collisional Effects on Waves in a Magnetoplasma.
- ²Kenneth Meade Lakin.....Portland, Michigan
Dissertation: Acoustoelectric Surface-Wave Amplification.
- James Edwin Murray.....Detroit, Michigan
Dissertation: Applications of Nonlinear Optics to Efficient Frequency Conversion and Q-Switched Pulse Control.
- Daniel Thornton Pierce.....Newport Beach
Dissertation: Photoemission and Optical Studies of Nickel Above and Below the Curie Temperature and of Rhodium.
- ²William Richard Smith, Jr.Salem, New Jersey
Dissertation: Studies of Microwave Acoustic Transducers and Dispersive Delay Lines.
- Stanley Saul Sussman.....New York, New York
Dissertation: Tunable Light Scattering from Transverse Optical Modes in Lithium Niobate.
- ²Arthur Howard Thompson.....Columbus, Ohio
Dissertation: Noise Emission from Indium Antimonide.
- ¹Janusz Warszawski.....Montreal, Quebec, Canada
Dissertation: Laser Power Stabilization by Nonlinear Absorption.
- ¹Michael Theodore Wauk II.....Covina
Dissertation: Attenuation in Microwave Acoustic Transducers and Resonators.
- ³David Abbott Wilson.....Syracuse, New York
Dissertation: Bragg Diffraction of Light from Magnetostatic and Magnetoelastic Waves.

BIOLOGICAL SCIENCES

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Dissertation: Intra-Specific Aggression and Its Relation to the Distribution Pattern of the Clonal Sea Anemone, *Anthopleura elegantissima*.
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Dissertation: The Reproductive Biology of the Sand Crab, *Emerita analoga* (Stimpson).
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Dissertation: Physiological Responses to Temperature Acclimation in the Limpet, *Acmaea limatula* Carpenter, 1864.
- ²Alice Louise Andersen Schroeder.....Longmont, Colorado
Dissertation: Some Ultraviolet-Sensitive Mutants of *Neurospora crassa*.
- ²Roger Andrew Szal.....Detroit, Michigan
Dissertation: Distance Chemoreception in a Marine Snail, *Tegula funebris*.

CHEMISTRY

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Dissertation: Stereospecific Formation of a Tetracyclic System via the Cyclization of 2-Substituted Polyolefinic 1,3-Dimethyl-2-cyclohexenols.
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Dissertation: The Photochemistry of 2,2,6,6-Tetramethylcyclohexanone in the Liquid Phase.

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Dissertation: Gas Phase Acidities.
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Dissertation: Metal Ions as Nuclear Magnetic Resonance Probes of Molecular Structure.
- ²Sidney Eugene Buttrill, Jr.Houston, Texas
Dissertation: Studies of Ion-Molecule Reaction Kinetics by Ion Cyclotron Resonance Techniques.
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Dissertation: Stereochemical Control in the Prelog Asymmetric Induction Rule.
- ¹Héctor Manuel Díaz.....Caracas, Venezuela
Dissertation: Self-Exchange of Chromium (II)-Fumaratochromium (III) and Related Reactions.
- ³Robert Copeland Dunbar.....Washington, D.C.
Dissertation: Ion Cyclotron Resonance Studies of Ion-Molecule Interactions.
- ³William Henry Faul.....Evansville, Indiana
Dissertation: The Mass Spectrometry of Steroidal Sapogenins.
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Dissertation: The Stereoselective Synthesis and Cyclization of *trans*, *trans*-1-Ethylenedioxy-5, 13-dimethyl-5,9,13-tetradecatriene.
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Dissertation: Electron Transfer Reactions of Ammineruthenium(III) Complexes of Substituted Pyridines.
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Dissertation: Enzymic and Acid Cyclizations of Squalene Oxide Analogs.
- ²Wayne Lester Hubbell.....Beaverton, Oregon
Dissertation: Spin Label Studies of Biological Membranes.
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Dissertation: Proton Transfer Reactions of Weak Acids in Dimethyl Sulfoxide.
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Dissertation: X-Ray Crystallographic Studies of N-Acetyl-L-Proline Amide and N-Acetyl-L-Tyrosine Amide.
- ²Alan George Marshall.....San Diego
Dissertation: I. Quadrupolar Nuclear Magnetic Relaxation in the Presence of Chemical Exchange: Study of the Active Site of α -Chymotrypsin; II. A Unified Theory of Ion Cyclotron Resonance Absorption Lineshapes.
- ²Lawrence Kermit Oliver.....Walker, Minnesota
Dissertation: The Biogenetically Patterned Synthesis of Ajmaline.
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Dissertation: I. Studies with Maleate as a Ligand; II. ⁵¹V Magnetic Resonance of Aqueous Solutions of Vanadium(II) and Chromium(III).
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Dissertation: The Photochemistry of Dibenzyl Ketones.
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Dissertation: Structural Correlation of Some Marine Invertebrate Triterpenes with Lanosterol.
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Dissertation: The Photochemistry of Carbanions, Ketyls, and Enolates.
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Dissertation: Reactive Scattering from Elemental Semiconductor Surfaces with a Modulated Molecular Beam Technique.
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Dissertation: The Application of Transient Nuclear Magnetic Resonance Methods to the Measurement of Biological Reaction Rates.
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CLASSICS

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COMMUNICATION

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COMPUTER SCIENCE

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ECONOMICS

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Minor: Mathematics.
Dissertation: Studies in Monetary Theory and Consumer Behavior.
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Dissertation: Disequilibrium Dynamics of Competitive Growth Paths.
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ENGLISH

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Dissertation: Shakespeare's Repentance Plays: The Search for an Adequate Form.
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Dissertation: The Imagination of Henry Green.
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Dissertation: Wilbur Daniel Steele: The Man and His Work.

FRENCH

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Dissertation: A Study of the Dream Motif in the Old French Narrative.
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Dissertation: Une Concordance du *Gargantua* de Rabelais.
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Dissertation: Le Problème du mal dans les romans de Julien Green.
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Dissertation: French Concrete Poetry: The Development of a Poetic Form, from Its Origins to the Present Day.
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Dissertation: French Adjective Morphology: A Statistical-Structural Study.

GERMAN

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Dissertation: Heinrich Heine's *Atta Troll*: An Analysis.
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Dissertation: Der Begriff des Spiels als ästhetisches Phänomen von Schiller bis Sartre.
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Dissertation: The Question of Form in Goethe's *Wanderjahre*.
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Dissertation: A History of Petroleum Terminology in Exploration and Production; The Influence of German Mining Terminology on English and Russian.
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Dissertation: "Wind," "Atem" and "Geist" in Goethe's *West-östlicher Divan*.
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Dissertation: Tenses and Time Phrases in Modern German.
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Dissertation: Wilhelm Heinrich Wackenroder's *Confessions and Phantasies*: Translated and Annotated with a Critical Introduction.
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Dissertation: Die "Mächtigkeit" des Dichters. Zum Problem von Distanz und Darstellung bei Friedrich Hölderlin.

GERMAN AND HUMANITIES

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Dissertation: Structure and Symbolism in Hans Henny Jahn's *Perrudja*: A Study of the Unity of the Novel.
- ¹Ingeborg Hildegard Solbrig.....Stanford
Dissertation: "Dem Zaubermeister das Werkzeug": Hammer-Purgstall und Goethes *West-östlicher Divan*.

HISTORY

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Dissertation: The Pro-Boer Liberals in Britain During the Boer War, 1899-1902.
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- Mark Thomas Carleton.....Baton Rouge, Louisiana
Dissertation: The Political History of the Louisiana State Penitentiary, 1835-1968.
- ²Allen Thomson Cronenberg, Jr.Rocky Mount, North Carolina
Dissertation: The *Volksbund für das Deutschtum im Ausland*: *Völkisch* Ideology and German Foreign Policy, 1881-1939.
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Dissertation: Red Robes and Barricades: The Parlement of Aix-en-Provence in a Period of Popular Revolt, 1629-49.
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Dissertation: Satire as a Weapon Against Prohibition, 1920-28: Expression of a Cultural Conflict.
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Dissertation: The Social Structure of Two California Mining Towns, 1850-70.
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Dissertation: Civil and Institutional Reform in New York State, 1864-68: A Radical Reconstruction at Home.
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Dissertation: The Quest for Stability: Domestic Oil Policy, 1919-35.
- ¹Stuart Michael Persell.....Omaha, Nebraska
Dissertation: The French Colonial Lobby, 1889-1914.
- ²Donald Blair Pryce.....Ebensburg, Pennsylvania
Dissertation: German Government Policy Towards the Radical Left, 1918-23.
- ²Karl Andrew Roider, Jr.Ada, Ohio
Dissertation: A Case Study in Eighteenth Century War and Diplomacy: Austria's Policy in the Austro-Russian-Turkish War of 1737-39.
- ¹Gail Stuart Rowe.....Mariposa
Dissertation: Power, Politics, and Public Service: The Life of Thomas McKean, 1734-1817.
- ²John Goodall Snetsinger.....Laguna Beach
Dissertation: Truman and the Creation of Israel.
- ³Patricia Ellen Weiss Stea.....Brookline, Massachusetts
Dissertation: Exiles and Citizens: Spanish Republican Refugees in Mexico.
- Robert Ratcliffe Taylor.....Victoria, B.C., Canada
Dissertation: "The Word in Stone": The Role of Architecture in the National Socialist Ideology.
- ²Everett Alan Wilson.....Santa Cruz
Dissertation: The Crisis of National Integration in El Salvador, 1919-35.

HISTORY AND HUMANITIES

- ³Carolyn Ann Higgins Richards.....Fort Morgan, Colorado
Dissertation: Chilean Attitudes Toward the United States, 1860-67.

LINGUISTICS

- ³Yole Correa.....San Francisco
Dissertation: Lexical and Morphological Aspects of American Italian in San Francisco.
- Kung-yi Kao.....Taipei, Taiwan
Dissertation: The Classification of Chinese Words.
- ²Karen Louise Halladay Kvakik.....Madison, Wisconsin
Dissertation: Noun Suffixes in Modern Spanish: A Synchronic Study of Formal and Statistical Properties.

MATHEMATICS

- ¹David Lee Armacost.....Santa Monica
Dissertation: Topics in the Character Theory of Locally Compact Abelian Groups.
- ¹Stuart Lee Brodsky.....Washington, D.C.
Dissertation: Asymptotic Distributions and Some Integral Equations.
- Paul Cotter Chestnut.....Palo Alto
Dissertation: Oseen Flow Past a Finite Flat Plate at Large Reynolds Number.
- Duane William DeTemple.....Portland, Oregon
Dissertation: Generalizations of the Grunsky-Nehari Inequalities.

- ¹Alan Stuart Gleit.....New York, New York
Minor: Physics.
Dissertation: Topics in Simplex Space Theory.
- ³Frances Joanne McWhirter Helton.....Cranbrook, B.C., Canada
Dissertation: Algebra Automata, Stack Automata and Operator Semigroups.
- ³Alan Trinler Huckleberry.....Muncie, Indiana
Dissertation: Holomorphic Mappings and Algebras of Holomorphic Functions of Several Complex Variables.
- Richard George Kellner.....Cleveland, Ohio
Dissertation: Some Eigenvalue Problems Connected with Potential Theory.
- ²Alan Holder Larson.....Steamboat Springs, Colorado
Dissertation: A Case Study of Predicative Mathematics: Uniform Spaces, Completions, and Algebraic Number Theory.
- ²Richard Beech Mansfield.....Wayne, New Jersey
Dissertation: The Theory of Σ^1_1 Sets.
- Bienvenido Florendo Nebres.....Bacnotan, Philippines
Dissertation: Preservation Theorems and Herbrand Theorems for Infinitary Languages.
- ¹William Frederick Ogden.....Fayetteville, Arkansas
Dissertation: Intercalation Theorems for Pushdown Store and Stack Languages.
- ¹Esther Ruth Glotzhoher Portnoy.....Dearborn, Michigan
Dissertation: Toward a Generalized Gauss-Bonnet Formula for Complete, Open Manifolds.
- ³Keith Alden Rose.....Salt Lake City, Utah
Dissertation: On a Class of Extremal Elliptic Operators.
- ¹Robert Thomas Smythe.....Moorestown, New Jersey
Dissertation: Local Time at Boundary Atoms of a Markov Chain.
- ¹Alan Curtiss Tucker.....Princeton, New Jersey
Dissertation: Two Characterizations of Proper Circular-Arc Graphs.
- David Wheeler Wigner.....Princeton, New Jersey
Dissertation: Algebraic Cohomology of Topological Groups.

PHILOSOPHY

- ²Wallace Duncan Bazemore.....Trinidad
Dissertation: The Elimination of the Hiatus Between the Divine and the Non-Divine in the Philosophy of Aurobindo.
- ¹Harry Alexander Beatty.....Hillsburgh, Ontario, Canada
Dissertation: Abstract Terms and Abstract Entities.
- ²Carole Ann Alpert Ganz.....New York, New York
Dissertation: Events.
- Deborah Ann Rosen.....Orangeburg, South Carolina
Dissertation: Two Transcendental Arguments for the Logical Notion of a Memory Trace.
- William Arthur Rottmayer.....Akron, Ohio
Dissertation: A Formal Theory of Perception.
- ¹Raimo Heikki Tuomela.....Helsinki, Finland
Dissertation: Auxiliary Concepts Within First-Order Scientific Theories.

PHILOSOPHY AND HUMANITIES

- ¹Robert Eugene McGinn.....Park Ridge, New Jersey
Dissertation: The Concept of Prestige: A Philosophical Analysis with Applications to Political Argument.
- ¹Ilmar Waldner.....Quincy, Illinois
Dissertation: Interpersonal Utility Comparison.

PHYSICS

- ¹Michael John Berggren.....Menominee, Michigan
Dissertation: Microwave-Optical Investigations of Cr^{3+} Pairs in Ruby.
- ³Michael John Creutz.....Rancho Santa Fe
Dissertation: I. Inelastic Electron Scattering and the Multi-Regge Model;
II. Hadronic States of Even Charge Conjugation from Electron-Positron Annihilation.
- ¹George William Gaffney.....Palo Alto
Dissertation: Current Algebras and Universal Divergent Radiative Corrections.
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Dissertation: Studies of He^4 by X-Ray Scattering.

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Dissertation: Stability of Superflow and Ion Mobility in He³-He⁴ Mixtures.
- ¹William John O'Connell.....New York, New York
Dissertation: Inverse Photonuclear Reactions in the Upper Part of the 1p Shell.
- ¹Timothy Charles Padmore.....Vancouver, B.C., Canada
Dissertation: Properties of an Imperfect, Inhomogeneous, Bose Gas.
- ²Paul Bruce Pipes, Jr.Fort Worth, Texas
Dissertation: Experiments with He³-He⁴ Dilution Refrigeration and Their Application to Nuclear Magnetic Susceptibility Measurements in Solid He³.
- ²George Edward Possin.....Palo Alto
Dissertation: Superconductivity in Nearly One-Dimensional Wires.
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Dissertation: The Study of High Isospin States by Isospin Forbidden Radiative Capture Reactions.

POLITICAL SCIENCE

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PSYCHOLOGY

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Dissertation: Memory for Words in Sentences.
- ¹Lita Marian Furby.....Berkeley
Dissertation: Children's Perception of Words and Its Relation to Problem Solving Strategies.
- ²Charles Jay Furst.....Red Bank, New Jersey
Dissertation: Automatizing of Visual Attention.
- ¹Michael Stephen Goodstadt.....Manchester, England
Dissertation: The Influence of Interpersonal Attraction and Threat-to-Freedom on Helping.
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Dissertation: The Role of the Hippocampus in Information Retrieval.
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Dissertation: Response Latency as an Indicant of Information Processing in Visual Search Tasks.
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Dissertation: Modification of Hypnotic Susceptibility.
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Dissertation: Some Developmental Aspects of Short-Term Memory in Children.
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Dissertation: The Husband-Wife Power Relationship in Black Families and White Families.
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Dissertation: On the Possibility of Localizing Visual Memory.

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Dissertation: Some Determinants of the Degree of Polarization of First Impressions.
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Dissertation: Influence of Muscular Relaxation, Positive Imagery, and Neutral Imagery on Extinction of Avoidance Behavior Through Systematic Desensitization.
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Dissertation: An Automaton Analysis of the Learning of a Miniature System of Japanese.
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Dissertation: Group Structure and Coding in Serial Learning.
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Dissertation: Functions of Multiple Associations in Verbal Learning.

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Dissertation: Multiple Sources and the Formation of Performance Expectations.
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Dissertation: A Source of Prestige Inertia.

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Dissertation: The Novelistic Technique of Azorin (José Martínez Ruiz).

SPEECH AND DRAMA

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Dissertation: Organic Unity in the Social-Problem Plays of Henrik Ibsen.

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Dissertation: Seriation of Multivariate Observations Through Similarities.
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Dissertation: Applications of Diffusion Approximations to the Collective Theory of Risk.
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Dissertation: Asymptotic Properties of the Autoregressive Spectral Estimator.
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Dissertation: Problems from Biostatistics.

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Dissertation: Stochastic Models in Traffic Flow Theory: Intersection Control.
- ²Roberto Sanchez Mariano.....Quezon City, Philippines
Dissertation: On Distributions and Moments of Single-Equation Estimators in a Set of Simultaneous Linear Stochastic Equations.
- Richard William Shorrock.....Montreal, Quebec, Canada
Dissertation: Caravans in Traffic Flow.
- ²James Hutchinson Ware.....Detroit, Michigan
Dissertation: Regression When Both Variables Are Subject to Error and the Ranks of Their Means Are Known.
- ¹Kenneth Laurence Weldon.....Toronto, Ontario, Canada
Dissertation: Stochastic Storage Processes with Multiple Slope Linear Inputs and Outputs.

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PHILIP C. HANAWALT, *Chairman*

Doctor of Philosophy

- ³Gerald Hubert Bausek.....Gmunden, Austria
Dissertation: Studies on the Induction of Interferon in Mammalian Cell Cultures.
- ²Michael Earl Conrad.....New York, New York
Minor: Biological Sciences.
Dissertation: Computer Experiments on the Evolution of Co-Adaptation in a Primitive Ecosystem.
- ²Alan Fredrick Horwitz.....Minneapolis, Minnesota
Minor: Chemistry.
Dissertation: Macromolecular Interactions in Biological Systems: I. Overlapping Conformation Changes in Spin-Labeled Hemoglobin. II. Spin Label Studies on Membranes from *E. Coli*.
- ²Francis Hubbard Kirkpatrick, Jr.Gibsonia, Pennsylvania
Minor: Chemistry.
Dissertation: Studies on the Conformation of Cytochrome Oxidase Using the Spin Label Technique.

FOOD RESEARCH INSTITUTE

WILLIAM O. JONES, *Director*

Master of Arts

- A. Rolando Arrivillaga.....Guatemala City, Guatemala
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Doctor of Philosophy

AESTHETICS AND CRITICISM

- ²David Lawrence Fagen.....Lake Forest, Illinois
Dissertation: A Communication Theory of Aesthetics.

MATHEMATICAL BIOLOGY

- ¹Marcus William Feldman.....Perth, Australia
Dissertation: Some Topics in Theoretical Population Genetics.

MOLECULAR BIOLOGY

- Willard Gibbs Spiegelman.....Champaign, Illinois
Dissertation: Regulation of the Synthesis of Bacteriophage Lambda Repressor.

NEUROMUSCULAR BEHAVIOR

- Edna May Forward.....Portola Valley
Dissertation: Effects of Perisensorimotor Cortex Ablation on Sequential Task
Performance in Monkey; A Study of Apraxia.

NUCLEAR INSTRUMENTATION

- ²Hans Rudolf Zulliger.....Palo Alto
Dissertation: Energy-Loss Mechanisms in Semiconductor Radiation Detectors.

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James Ralph Beery.....Atherton
³Ann Williams Bender.....Tulsa, Oklahoma
Gilbert Charles Berkeley, Jr.Fresno
Annette Galustian Bialson.....Palo Alto
³Richard Weston Blewett.....Stockton
Robert Laurence Bouchier.....South Laguna
Michael Leonard Burack.....Hartford, Connecticut
Halsey Bingham Collins.....Chevy Chase, Maryland
Trigg Thomas Davis.....Burlingame
Adam George von Dioszeghy.....Los Altos
Dolores Ann Donovan.....La Jolla
³Robert Ernest Edmondson.....Santa Rosa
Martin Eichner.....Washington, D.C.

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Herbert Foster Wilkinson.....	Anaheim
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Robert Michael Wright.....	Stanford

Master of the Science of Law

David Alfred Gantz.....Cincinnati, Ohio

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MEDICAL MICROBIOLOGY

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PHYSICAL THERAPY

Janet Ann Bower.....Bozeman, Montana
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 Donna Klokkeyold.....Anchorage, Alaska
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Doctor of Medicine

Robert Clark Aber.....Easton, Pennsylvania
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 Michael Paul Alexander.....Chicago, Illinois
 Eugene Altman.....Chicago, Illinois
 Warren LeRoy Anderson.....Rockford, Illinois
 Howard David Arkans.....Philadelphia, Pennsylvania
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 Thomas Richard Deetz.....Saratoga
 David George Deneau.....Chula Vista
 Vernon Gary Dorfman.....Piedmont
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 James Ronald Fisher.....Meadowlake, Kansas
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¹ Michael Ira Friedman.....	Leonia, New Jersey
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Addie Martha Steward Gilbert.....	Vista
Michael Clark Graves.....	Dallas, Texas
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Ivan I. Grossman.....	Paterson, New Jersey
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Michael Noel Koss.....	Cedarhurst, New York
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Paul Dennis Larsen.....	Aberdeen, South Dakota
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Charles George Maresch.....	Somerville, New Jersey
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Steven Lawrence Solter.....	San Francisco
Patrick Michael Sullivan.....	Billings, Montana
Isao Jack Tsuji.....	Berkeley
Arvid Eugen Underman.....	Los Angeles
Michael Paul Volen.....	New York, New York
Franklin Gene Zweiman.....	New York, New York

Doctor of Philosophy

ANATOMY

- ¹Alice Hribal Dodge..... Redwood City
 Dissertation: Localization of 11β -Hydroxylase Within Mitochondrial Subfractions
 of the Rat Adrenal Cortex.

BIOCHEMISTRY

- ²James J. Champoux..... Seattle, Washington
 Dissertation: Poly rG Binding Sites and Transcription of Bacteriophage
 Lambda DNA.
- ³Robert Charles Costello..... Chapel Hill, North Carolina
 Dissertation: Factors Determining the Sedimentation Behavior of Coliphage Lambda.
- ¹David Lee Nelson..... Albert Lea, Minnesota
 Dissertation: Small Molecules in Bacterial Spores.

GENETICS

- ¹Markus Nabholz.....Zurich, Switzerland
Dissertation: Studies on Somatic Hybridization as a Tool for the Genetic Analysis of Man.

MEDICAL MICROBIOLOGY

- ³Eugene Peter Ornellas.....Aiea, Hawaii
Dissertation: Specificity of Immunity in Experimental Salmonellosis.
¹Patricia Susan Potter Vary.....Fort Worth, Texas
Dissertation: Nonsense Motility Mutants in *Salmonella typhimurium*.
Ken Tauw Wong.....Bogor, Indonesia
Dissertation: Inhibition of Virus-Specific Macromolecular Synthesis by Interferon.

PHARMACOLOGY

- ²Robert McKernon Joy.....Saratoga
Dissertation: Dynamic Harmonic Analysis: Its Development and Use to Evaluate the Effects of Benzodiazepines on the Spontaneous EEG.
¹Byron Wilfred Kemper.....Evansville, Indiana
Dissertation: Characterization of Nucleic Acid Synthesis in Intact Nuclei Insulated from Mouse Fibroblasts and Effects of Glucocorticoids.

PHYSIOLOGY

- Richard Fred Weick.....Mountain View
Dissertation: Stimulatory and Inhibitory Effects of Intracranial Estrogen and Progesterone on Ovulation in Rats.
²William Gregory Yates.....Puyallup, Washington
Dissertation: Experimental Studies of the Variations in the Mechanical Properties of the Canine Abdominal Vena Cava.

SPEECH AND HEARING SCIENCES

- Jack Reese Clement.....Jackson, Mississippi
Dissertation: Minimal Perceptible Differences in Decay Rates of Aperiodic Signals.
²Bruce Elwell Irvin.....Dexter, Oregon
Dissertation: An Investigation of Factors Influencing Minimal Cues for Vowel Identification.
Lorraine Mary Monnin.....Monterey Park
Dissertation: A Study of the Relationship of Articulation and Speech Sound Identification Abilities of Normal Speaking and Speech Defective Children.
¹Kenneth Lynn Perrin.....Alhambra
Dissertation: An Examination of Ear Preference for Speech and Non-Speech Stimuli in a Stuttering Population.
Griffith Greer Richards.....Ogden, Utah
Dissertation: An Experimental Investigation of Dynamic Palatography in the Specification of Certain Phonetic Contrasts.
William Sidney Rosenthal.....Stanford
Minor: Psychology.
Dissertation: Perception of Auditory Temporal Order as a Function of Selected Stimulus Features in a Group of Aphasic Children.
¹Thayne Clair Smedley.....Syracuse, Utah
Dissertation: The Influence of Masker Intensity on Contralateral Threshold Shifts Under Three Psychophysical Methods in Naive Normal Hearing Listeners.

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Doctor of Philosophy

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Dissertation: Studies on the Metabolism of Mouse Brain Proteins *in Vivo*.
²Paul Stuart Greenbaum Stein.....River Edge, New Jersey
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